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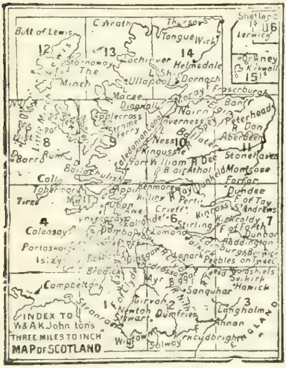
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| 9 | M | Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, and Names of Competitors for Bursaries, to be given in to Assistant-Clerk (Matriculation Office). |
| 10 | Tu | |
| 11 | W | |
| 12 | Th | Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office). |
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| 18 | W | Names of Candidates for Degrees in Arts and Law, and for Scholarships, etc., to be given in to Assistant-Clerk (Matriculation Office). |
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| 24 | Tu | |
| 25 | W | |
| 26 | Th | Preliminary Examinations in Arts, Science, and Medicine begin. (See p. 168.) Competition for Bursaries begins.<br>Degree Examination—Education. |
| 27 | F | |
| 28 | S | Degree Examinations—History, Astronomy, Geology.<br>Last day for Professors sending in Names of Assistants to Secretary of University Court. |
| 29 | **S** | |
| 30 | M | Degree Examinations—Zoology, Botany, Chemistry, Materia Medica, Engineering Laboratory, Constitutional Law, Civil (or Roman) Law.<br>Competition for [illegible] Bursary in Medicine. |

## OCTOBER 1901.

| | | |
|---|---|---|
| 1 | Tu | Theses for M.D. given in. Names of Candidates for Examination for M.D. to be given in.<br>Competition for Lorimer Bursary in Medicine.<br>Degree Examinations—French, Physics, Anatomy, Physiology, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Public International Law. |
| 2 | W | Degree Examinations—French, German, Political Economy, Medical Jurisprudence and Public Health, Pathology, Civil Engineering, Philosophy of Law, International Private Law. |
| 3 | Th | Degree Examinations—German, Civil Engineering, Conveyancing, Medical Jurisprudence.<br>Preliminary Examinations end.<br>Additional Examinations in German and French for Bursaries.<br>Meeting of University Court. Appointment of University Assistants, and of Preliminary Examiners and Members of Joint Board for next year. Appointment of Committees and of Representatives at Charitable and other Boards. |
| 4 | F | Degree Examinations in Mathematics, etc. (See pp. 190, 203.)<br>Additional Examinations in Mathematics, Latin, and Greek for Bursaries. |
| 5 | S | Additional Examination in English and Dynamics for Bursaries.<br>Examination for Arnott Prizes at 2 P.M. |
| 6 | 𝔖 | |
| 7 | M | |
| 8 | Tu | |
| 9 | W | |
| 10 | Th | Meeting of Senate—Election of Senate Members of Library and other Committees.<br>Meeting of Classical Committee of Joint Board. |
| 11 | F | Meeting of Joint Board. |
| 12 | S | Meeting of Joint Board. |
| 13 | 𝔖 | |

## OCTOBER 1901.

| | | |
|---|---|---|
| 14 | M | |
| 15 | Tu | |
| 16 | W | Matriculation begins.<br>Names of Candidates for Degree of B.D. and for Bursaries, etc., in Theology to be given in to Assistant-Clerk (Matriculation Office). |
| 17 | Th | Results of Bursary Competition declared.<br>Opening of Winter Session. |
| 18 | F | |
| 19 | S | |
| 20 | **S** | |
| 21 | M | |
| 22 | Tu | Examinations for B.D., and for Bursaries in Theology, 1st day. (See p. 235.) |
| 23 | W | Do. do., 2nd day. |
| 24 | Th | |
| 25 | F | |
| 26 | S | |
| 27 | **S** | |
| 28 | M | |
| 29 | Tu | |
| 30 | W | (Last Wednesday.) Meeting of General Council. |
| 31 | Th | Applications for admission as Research Students to be lodged with the Clerk of Senate.<br>Last day for receiving Tradesmen's and other Accounts for preceding half-year.<br>Last day for receiving Professors' Accounts for Class Expenses for transmission to University Court.<br>**Last day for giving in University Prize Essays.** |

## NOVEMBER 1901.

| | | |
|---|---|---|
| 1 | F | |
| 2 | S | |
| 3 | 𝔖 | |
| 4 | M | |
| 5 | Tu | |
| 6 | W | |
| 7 | Th | Meeting of Senate. Graduation. Representatives at Charitable and other Boards elected. |
| 8 | F | Matriculation ends. |
| 9 | S | |
| 10 | 𝔖 | |
| 11 | M | |
| 12 | Tu | |
| 13 | W | |
| 14 | Th | Meeting of University Court. |
| 15 | F | |
| 16 | S | |
| 17 | 𝔖 | |
| 18 | M | |
| 19 | Tu | |
| 20 | W | |
| 21 | Th | |

## NOVEMBER 1901.

| | | |
|---|---|---|
| 22 | F | |
| 23 | S | |
| 24 | S | |
| 25 | M | |
| 26 | Tu | |
| 27 | W | |
| 28 | Th | |
| 29 | F | |
| 30 | S | |

## DECEMBER 1901.

| | | |
|---|---|---|
| 1 | S | |
| 2 | M | |
| 3 | Tu | |
| 4 | W | |
| 5 | Th | Meeting of Senate. [illegible] |
| 6 | F | |
| 7 | S | |
| 8 | S | |
| 9 | M | |
| 10 | Tu | |
| 11 | W | |
| 12 | Th | Meeting of the University Court. |
| 13 | F | |
| 14 | S | Payment of Tradesmen's and other Accounts. |
| 15 | S | |
| 16 | M | |
| 17 | Tu | |
| 18 | W | |
| 19 | Th | |
| 20 | F | |
| 21 | S | |
| 22 | S | |
| 23 | M | Christmas Holidays commence. |
| 24 | Tu | |
| 25 | W | |
| 26 | Th | |
| 27 | F | |
| 28 | S | |
| 29 | S | |
| 30 | M | |
| 31 | Tu | |

## JANUARY 1902.

| | | |
|---|---|---|
| 1 | W | |
| 2 | Th | |
| 3 | F | |
| 4 | S | |
| 5 | 𝔖 | |
| 6 | M | |
| 7 | Tu | First day on which the Classes meet after the Christmas Holidays. |
| 8 | W | |
| 9 | Th | (Second Thursday.) Meeting of University Court. |
| 10 | F | |
| 11 | S | Applications for Higher Degrees in Arts and Science (D.Litt., D.Phil., and D.Sc.) to be sent in to Clerk of Senate. |
| 12 | 𝔖 | |
| 13 | M | |
| 14 | Tu | |
| 15 | W | Last day for receiving Accounts for transmission to Court. |
| 16 | Th | Meeting of Senate. Intimation from the several Faculties of the Election of Deans. Appointment of Boards of Studies. Vacant Bursaries filled up. |
| 17 | F | |
| 18 | S | |
| 19 | 𝔖 | |
| 20 | M | |
| 21 | Tu | |
| 22 | W | |
| 23 | Th | |
| 24 | F | |
| 25 | S | |
| 26 | 𝔖 | |
| 27 | M | |
| 28 | Tu | |
| 29 | W | |
| 30 | Th | |
| 31 | F | |

## FEBRUARY 1902.

| | | |
|---|---|---|
| 1 | S | Theses for M.D. to be sent in. |
| 2 | 𝔖 | |
| 3 | M | Holiday (Monday after last Friday of January). |
| 4 | Tu | Holiday (for Candlemas). |
| 5 | W | |
| 6 | Th | Meeting of Senate. Reports of Committees on Honorary Degrees. |
| 7 | F | |
| 8 | S | |
| 9 | 𝔖 | |
| 10 | M | |
| 11 | Tu | |
| 12 | W | |
| 13 | Th | (Second Thursday.) Meeting of University Court. Arrangements for Summer Session. |
| 14 | F | |
| 15 | S | |
| 16 | 𝔖 | |
| 17 | M | |
| 18 | Tu | |
| 19 | W | |
| 20 | Th | |
| 21 | F | |
| 22 | S | |
| 23 | 𝔖 | |
| 24 | M | |
| 25 | Tu | |
| 26 | W | |
| 27 | Th | |
| 28 | F | |

## MARCH 1902.

| | | |
|---|---|---|
| 1 | S | |
| 2 | S | |
| 3 | M | Holiday (Monday after last Friday of February). |
| 4 | Tu | |
| 5 | W | |
| 6 | Th | Meeting of Senate.<br>Schemes of Courses in Arts, Science, and Medicine to be sent by Professors and Lecturers to Conveners of Boards of Studies. |
| 7 | F | Names of Candidates for Preliminary Examination in Arts, Science, and Medicine, to be given in to Assistant-Clerk (Matriculation Office). |
| 8 | S | Reports on Prize Essays. |
| 9 | S | |
| 10 | M | |
| 11 | Tu | Names of Candidates for Degrees in Arts and Law to be given in to Assistant-Clerk (Matriculation Office). |
| 12 | W | |
| 13 | Th | Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to Assistant-Clerk (Matriculation Office).<br>Meeting of University Court. Appoint Member of Committee of West of Scotland Marine Biological Station. |
| 14 | F | |
| 15 | S | |
| 16 | S | |
| 17 | M | |
| 18 | Tu | |
| 19 | W | |
| 20 | Th | Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed. Appointment to International Exhibition Scholarship. |
| 21 | F | |
| 22 | S | |
| 23 | S | |
| 24 | M | |
| 25 | | |
| 26 | | |
| 27 | Th | |
| 28 | F | Close of Winter Session.<br>Names of Candidates for Degree of B.D. to be given in to Assistant-Clerk (Matriculation Office).<br>Preliminary Examinations in Arts, Science, and Medicine begin. (See p. [illegible])<br>Degree Examination—Education. |
| 29 | S | Degree Examinations—History, Astronomy, Geology. |
| 30 | S | |
| 31 | M | Last day for receiving Professors' Accounts of Class Expenses, Tradesmen's, Forty-five shilling, and other Accounts for transmission to Court.<br>Returns from Teachers of Elocution.<br>Degree Examinations—Zoology, Botany, Chemistry, Materia Medica, Engineering Laboratory, Constitutional Law, Civil (or Roman) Law. |

## APRIL 1902.

| | | |
|---|---|---|
| 1 | Tu | Degree Examinations—French, Physics, Anatomy, Physiology, Engineering Drawing, Naval Architecture, Ship Design, Scots Law, Public International Law. |
| 2 | W | (First Wednesday.) Meeting of General Council.<br>Degree Examinations—French, German, Political Economy, Medical Jurisprudence and Public Health, Pathology, Civil Engineering, Philosophy of Law, International Private Law. |
| 3 | Th | Meeting of Senate.<br>Preliminary Examinations end.<br>Degree Examinations—German, Civil Engineering, Conveyancing, Medical Jurisprudence, Divinity, Textual Criticism. |
| 4 | F | Degree Examinations—Hebrew, Church History, Hermeneutics, Mercantile Law. |
| 5 | S | Last day for returning Books to the Library.<br>Degree Examinations in remaining Arts subjects and for Snell Exhibition begin (see p. 190). |
| 6 | $ | |
| 7 | M | |
| 8 | Tu | |
| 9 | W | |
| 10 | Th | Meeting of University Court.<br>Meeting of Classical Committee of Joint Board. |
| 11 | F | Meeting of Joint Board. |
| 12 | S | Meeting of Joint Board. |
| 13 | $ | |
| 14 | M | |
| 15 | Tu | |
| 16 | W | |
| 17 | Th | Library re-opened. |
| 18 | F | |
| 19 | S | |
| 20 | $ | |

## APRIL 1902.

| | | |
|---|---|---|
| 21 | M | |
| 22 | Tu | Graduation in all the Faculties. Honorary Graduation. Distribution of University Prizes. |
| 23 | W | Meeting of Senate.<br>Opening of Summer Session. |
| 24 | Th | |
| 25 | F | |
| 26 | S | |
| 27 | **S** | |
| 28 | M | |
| 29 | Tu | |
| 30 | W | |

## MAY 1902

| | | |
|---|---|---|
| 1 | Th | Meeting of University Court. |
| 2 | F | |
| 3 | S | |
| 4 | **S** | |
| 5 | M | |
| 6 | Tu | |
| 7 | W | |
| 8 | Th | |
| 9 | F | |
| 10 | S | Payment of Tradesmen's and other Accounts. Meeting of Faculty of Medicine. |
| 11 | **S** | |
| 12 | M | |
| 13 | Tu | |
| 14 | W | |
| 15 | Th | |
| 16 | F | |
| 17 | S | |
| 18 | **S** | |
| 19 | M | |
| 20 | Tu | |
| 21 | W | |
| 22 | Th | |
| 23 | F | |
| 24 | S | |
| 25 | **S** | |
| 26 | M | |
| 27 | Tu | |
| 28 | W | |
| 29 | Th | Names of Candidates for Final Professional Examination in Medicine to be given in to Assistant-Clerk (Matriculation Office). |
| 30 | F | |
| 31 | S | |

## JUNE 1902.

| | | |
|---|---|---|
| 1 | 𝔖 | |
| 2 | M | Theses for M.D. given in. |
| 3 | Tu | |
| 4 | W | |
| 5 | Th | |
| 6 | F | |
| 7 | S | |
| 8 | 𝔖 | |
| 9 | M | |
| 10 | Tu | |
| 11 | W | |
| 12 | Th | Meeting of University Court. Appointment of Lecturers. |
| 13 | F | |
| 14 | S | |
| 15 | 𝔖 | |
| 16 | M | |
| 17 | Tu | |
| 18 | W | |
| 19 | Th | Degree Examinations—Practice of Medicine, Surgery. |
| 20 | F | Do. Midwifery; Clinical Examinations begin. |
| 21 | S | |
| 22 | 𝔖 | |
| 23 | M | |
| 24 | Tu | |
| 25 | W | |
| 26 | Th | |
| 27 | F | |
| 28 | S | |
| 29 | 𝔖 | |
| 30 | M | |

## JULY 1902.

| | | |
|---|---|---|
| 1 | Tu | Last day for receiving accounts for transmission to Court. |
| 2 | W | |
| 3 | Th | |
| 4 | F | |
| 5 | S | |
| 6 | 𝔖 | |
| 7 | M | |
| 8 | Tu | |
| 9 | W | |
| 10 | Th | Meeting of University Court. |
| 11 | F | |
| 12 | S | |
| 13 | 𝔖 | |
| 14 | M | |
| 15 | Tu | |
| 16 | W | |
| 17 | Th | |
| 18 | F | |
| 19 | S | |
| 20 | 𝔖 | |
| 21 | M | |
| 22 | Tu | Meeting of Senate. Graduation in Medicine. |
| 23 | W | |
| 24 | Th | |
| 25 | F | |
| 26 | S | |
| 27 | 𝔖 | |
| 28 | M | |
| 29 | Tu | |
| 30 | W | |
| 31 | Th | |

# UNIVERSITY OFFICERS.

| | Elected. | Electors. |
|---|---|---|
| *Chancellor*—THE RIGHT HON. THE EARL OF STAIR, K.T., LL.D., - - - - | 1884 | General Council |
| *Vice-Chancellor*—ROBERT HERBERT STORY, D.D., LL.D., - - - - - - | 1898 | Chancellor. |
| *Rector*—THE RIGHT HON. THE EARL OF ROSEBERY, K.G., D.C.L., LL.D., F.R.S., | 1899 | Matriculated Students. |
| *Principal*—ROBERT HERBERT STORY, D.D., LL.D., | 1898 | Crown. |
| *Dean of Faculties*—THE RIGHT HON. LORD KELVIN, G.C.V.O., - - - - | 1901 | Senate. |
| *Parliamentary Representative*—THE RIGHT HON. JAMES A. CAMPBELL, LL.D., - - | 1880 | General Council. |

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## University Court

THE RECTOR, *ex officio*. | THE PRINCIPAL, *ex officio*,

THE LORD PROVOST OF GLASGOW, *ex officio*.

| | Elected. | Electors. |
|---|---|---|
| SIR JAMES KING, BART., LL.D., - | 1887 | Chancellor. |
| ALEXANDER URE, LL.B., Q.C., M.P., | 1899 | Rector. |
| ROBERT M. MITCHELL, - | 1899 | Lord Provost, Magistrates, and Town Council of Glasgow. |
| SIR JOHN N. CUTHBERTSON, LL.D., | 1889 | General Council. |
| D. C. M'VAIL, M.B., - - | 1891 | |
| SIR JAMES BELL, BART., - - | 1899 | |
| W. ROBERTSON COPLAND, - - | 1900 | |
| PROFESSOR STEWART, D.D., - | 1889 | Senate. |
| PROFESSOR ADAMSON, LL.D., - | 1898 | |
| PROFESSOR YOUNG, M.D., - - | 1899 | |
| PROFESSOR MOIR, LL.D., - - | 1900 | |

## Senatus Academicus.[1]

PRESIDENT, - - - THE PRINCIPAL, - - - - 1898

PROFESSORS.

| | Chairs. | Appointed. |
|---|---|---|
| William Hastie, D.D., - - - | *Divinity*, - - | 1895 |
| George G. Ramsay, LL.D., - - - | *Humanity*, - - | 1863 |
| John Young, M.D., - - - - | *Natural History*, - | 1866 |
| William Stewart, D.D., - - - | *Biblical Criticism*, - | 1873 |

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[1] See note at foot of next page.

| Professors—*Continued.* | Chairs. | Appointed |
|---|---|---|
| T. M'Call Anderson, M.D., | *Practice of Medicine,* | 1900[1] |
| John Ferguson, M.A., LL.D., F.S.A., | *Chemistry,* | 1874 |
| John Gray M'Kendrick, M.D., LL.D., F.R.S., | *Physiology,* | 1876 |
| James Robertson, D.D., | *Hebrew and Semitic Languages,* | 1877 |
| John Cleland, M.D., LL.D., D.Sc., F.R.S., | *Anatomy,* | 1877 |
| William Jack, LL.D., | *Mathematics,* | 1879 |
| Frederick O. Bower, Sc.D., F.R.S., | *Botany,* | 1885 |
| Alexander Moody Stuart, LL.D., | *Law,* | 1887 |
| Archibald Barr, D.Sc., | *Civil Engineering and Mechanics,* | 1889 |
| James Moir, LL.D., | *Conveyancing,* | 1889 |
| John Harvard Biles, | *Naval Architecture, including Marine Engineering,* | 1891 |
| William Macewen, M.D., Hon. F.R.C.S., LL.D., F.R.S., | *Surgery,* | 1892 |
| Ludwig Becker, Ph.D., | *Astronomy,* | 1893 |
| Murdoch Cameron, M.D., | *Midwifery,* | 1894 |
| Henry Jones, LL.D., | *Moral Philosophy,* | 1894 |
| Robert Adamson, LL.D., | *Logic and Rhetoric,* | 1895 |
| William Smart, D.Phil., LL.D., | *Political Economy,* | 1896 |
| Ralph Stockman, M.D., | *Materia Medica,* | 1897 |
| John Glaister, M.D., | *Forensic Medicine,* | 1898 |
| James Cooper, D.D., | *Church History,* | 1898 |
| Robert Muir, M.D., | *Pathology,* | 1899 |
| John S. Phillimore, M.A., | *Greek,* | 1899 |
| Andrew Gray, LL.D., F.R.S., | *Natural Philosophy,* | 1899 |
| Dudley J. Medley, M.A., | *History,* | 1899 |
| Sir Hector C. Cameron, M.D., | *Clinical Surgery,* | 1900 |
| Walter A. Raleigh, M.A., | *English Language and Literature,* | 1900 |
| Samson Gemmell, M.D., | *Clinical Medicine,* | 1900 |

*Note.*—"The precedency of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation, 1727.*

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[1] Professor Anderson occupied the Chair of Clinical Medicine from 1874 till he was appointed to the Chair of Practice of Medicine in 1900.

## Deans of the several Faculties.

| | |
|---|---|
| *Arts*, - - - - - - | Professor Jack. |
| *Science*, - - - - - | Professor Young. |
| *Medicine*, - - - - - - | Professor Anderson. |
| *Law*, - - - | Professor Smart. |
| *Theology*, - - - - - | Professor Stewart. |

## Lecturers.

| | |
|---|---|
| John Young, M.D., - - - | *Honeyman Gillespie Lecturer.* |
| David Yellowlees, M.D., LL.D., - | *Insanity.* |
| Thomas Barr, M.D., - | *Diseases of the Ear.* |
| J. Walker Downie, M.B., - - - | *Diseases of the Throat and Nose.* |
| James F. Gemmill, M.A., M.D., - | *Embryology.* |
| Wm. Galbraith Miller, LL.B., | *Public International Law; International Private Law; and General Jurisprudence.* |
| Wm. S. M'Kechnie, LL.B., D.Phil., | *Constitutional Law and History.* |
| James M. Irvine, B.Sc., LL.B., - | *Civil Law.* |
| William Shaw, - - - - - | *Mercantile Law.* |
| W. C. Anderson, D.Sc., | *Metallurgical Chemistry.* |
| J. D. Cormack, B.Sc., - - | *Electrical Engineering.* |
| W. W. M'Kechnie, M.A., - | *Humanity.* |
| George Macdonald, M.A., - | *Greek.* |
| David H. Crawford, M.A., - | *Public Speaking.* |
| Charles Martin, M.A. (Paris), - | *French Language and Literature.* |
| George P. Thistlethwaite, B.A., Ph.D., | *German Language and Literature.* |
| Thomas H. Weir, B.D., - | *Hebrew and Arabic or Syriac.* |
| Robert A. Duff, M.A., - - | *Political Philosophy.* |
| John Adams, M.A., B.Sc., - | *Education.* |
| Horatio S. Carslaw, M.A., D.Sc., -<br>Robert J. T. Bell, M.A., B.Sc., - | *Mathematics.* |
| Magnus Maclean, M.A., D.Sc., - | *Celtic.* |
| Edward Caird, D.C.L., LL.D., - | *Natural Theology* (Gifford Foundation). |

| | |
|---|---|
| *Thomas Gray, D.Sc., Ph.D., | *Chemistry.* |
| *Thomas H. Bryce, M.A., M.B., | *Anatomy.* |
| *William MacLennan, M.B., C.M., | *Materia Medica.* |
| *Charles Workman, M.D., | *Pathology.* |
| *J. H. Pringle, F.R.C.S., | *Surgery.* |
| *J. Lindsay Steven, M.D., | *Practice of Medicine.* |
| *A. M. Ramsay, M.D., | *Diseases of the Eye.* |
| *A. A. Jack, M.A., LL.M., | *English Language and Literature.* |
| *Norman D. Smith, M.A., | *Logic.* |
| *Robert A. Duff, M.A., | *Moral Philosophy.* |
| *James Blyth, M.A., F.R.S.E., | *Natural Philosophy.* |

## Boards of Studies.—1901-2.

**In Arts.** *Language and Literature.*—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Robertson, Phillimore, and Raleigh, Messrs. George Macdonald, W. W. M'Kechnie, Charles Martin, G. P. Thistlethwaite, and A. A. Jack.—Professor Raleigh *Convener.*

*Mental Philosophy.*—The Principal, the Dean of the Faculty of Arts, Professors Jones, Adamson, Smart, and Phillimore, Messrs. R. A. Duff, Norman D. Smith, and John Adams.—Professor Jones, *Convener.*

*Science.*—The Principal, the Dean of the Faculty of Arts, Professors Young, Ferguson, Bower, Becker, and Gray, Messrs. Blyth and Thomas Gray.—Professor Jack, *Convener.*

*History and Law.*—The Principal, the Dean of the Faculty of Arts, Professors Medley and Raleigh, Dr. M'Kechnie, and Mr. Irvine. —Professor Medley, *Convener.*

*English (Language, Literature, and British History).*—The Principal, the Dean of the Faculty of Arts, Professors Ramsay, Phillimore, Medley, and Raleigh, and Dr. M'Kechnie.—Professor Raleigh, *Convener.*

*Economic Science.*—The Principal, the Dean of the Faculty of Arts, Professors Jones, Smart, and Medley, Dr. M'Kechnie, and Messrs. W. G. Miller and Irvine.—Professor Smart, *Convener.*

**In Science.** — Professors Young, Ferguson, M'Kendrick,

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* Lecturers at Queen Margaret College.

Cleland, Jack, Bower, Barr, Biles, Becker, and Gray, Dr. W. C. Anderson, and Mr. John D. Cormack. Professor Young, *Convener*.

**In Medicine.**—Professors Young, Anderson, Ferguson, M'Kendrick, Cleland, Bower, Macewen, Murdoch Cameron, Stockman, Glaister, Muir, Sir Hector C. Cameron, and Gemmell, Drs. Yellowlees, Thomas Barr, Downie, Workman, A. M. Ramsay, Bryce, Pringle, Maclennan, J. Lindsay Steven, and J. F. Gemmill, Messrs. Blyth and Gray; the Dean of the Faculty of Medicine, *Convener*.

## University Assistants or Demonstrators.*

| | |
|---|---|
| *Humanity*, | W. W. M'Kechnie, M.A.<br>Daniel Rankin, B.A. |
| *Greek*, | George Macdonald, M.A. |
| *English Language and Literature*, | David H. Crawford, M.A. |
| *Hebrew and Semitic Languages*, | Thomas H. Weir, B.D. |
| *Logic*, | Norman D. Smith, M.A. |
| *Moral Philosophy*, | Robert A. Duff, M.A. |
| *Political Economy*, | Thomas Jones, M.A. |
| *Mathematics*, | Horatio S. Carslaw, M.A., D.Sc.<br>Robert J. T. Bell, M.A., B.Sc. |
| *Natural Philosophy*, | Walter Stewart, M.A., D.Sc. |
| Arnott and Thomson Demonstrator in *Experimental Physics*, | James W. Peck, M.A. |
| *Civil Engineering and Mechanics*, | Harry Bamford, M.Sc.<br>John D. Cormack, B.Sc. |
| *Naval Architecture*, | Charles S. Douglas, B.Sc. |
| *Botany*, | William H. Lang, D.Sc., M.B., C.M.<br>D. T. Gwynne Vaughan, M.A. |
| *Natural History*, | James Rankin, B.Sc., M.B., C.M.<br>Norman H. W. Maclaren. |
| Baxter Demonstrator in *Geology*, | Vacant. |
| *Chemistry*, | William C. Anderson, D.Sc., M.A.<br>George Lean, B.Sc.<br>James Roberts, F.C.S. |

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* The Assistants and Demonstrators in this list may be [illegible]. Those for [illegible] fall to be appointed before the beginning of the session.

| | |
|---|---|
| *Anatomy,* | James F. Gemmill, M.A., M.D.<br>William K. Hutton, M.A., M.B., C.M.<br>Archibald N. M'Lellan, M.B., C.M.<br>Edgar W. Sharp, M.B., C.M. |
| *Physiology,* | William B. Brodie, M.B., C.M. (Muirhead Demonstrator).<br>John H. Teacher, M.A., M.B., C.M. |
| *Materia Medica,* | Francis J. Charteris, M.B., Ch.B. |
| *Pathology,* | Alexander R. Ferguson, M.B., C.M.<br>M. Logan Taylor, M.B., Ch.B. |
| *Forensic Medicine,* | George A. Brown, M.B., C.M. |
| *Surgery,* | John Gordon, M.D., C.M. |
| *Clinical Surgery* (Dr. Macewen), | W. H. Steel, M.B., Ch.B. |
| *Clinical Surgery* (Sir H. C. Cameron), | Alfred A. Young, M.A., M.B., C.M. |
| *Practice of Medicine,* | William R. Jack, B.Sc., M.D. |
| *Clinical Medicine* (Dr. Anderson), | William R. Jack, B.Sc., M.D.<br>James Hinshelwood, M.A., M.D. |
| *Clinical Medicine* (Dr. Gemmell), | Alfred Webster, M.D., C.M. |
| *Midwifery,* | John M. M. Kerr, M.B., C.M. |

## Examiners for Degrees.

*In Divinity.*—The Professors in the Faculty of Theology, assisted by the Rev. John Maclean, D.D., and the Rev. Henry Bremner, D.D.

*In Law.*—The Professors and Lecturers in the Faculty of Law, assisted by

| | |
|---|---|
| William A. Ramsay, LL.B., | 1899 |
| Hugh P. Macmillan, LL.B., | 1899 |
| Alexander M. Hamilton, LL.B. | 1899 |
| Robert B. Taylor, M.A., | 1900 |

*In Medicine.*—The Professors and Lecturers in the Faculty of Medicine, as specified in Section XXIV. of Ordinance No. 14, and the following Additional Examiners:—

| | | | |
|---|---|---|---|
| Peter Pinkerton, M.A. | 1898 | George G. Henderson, D.Sc. | 1899 |
| Alexander O. Mackellar, M.D. | 1899 | William Murrell, M.D. | 1899 |

| | | | |
|---|---|---|---|
| Malcolm Laurie, D.Sc. | 1899 | Robert Jardine, M.D. | 1900 |
| B. C. A. Windle, M.A., M.D., D.Sc. | 1900 | Ebenezer Duncan, M.D. | 1901 |
| | | De Burgh Birch, | 1901 |
| H. Harvey Littlejohn, M.A., M.B., B.Sc. | 1900 | James Ritchie, M.D., | 1901 |
| | | Albert Carless, M.B., | 1901 |
| R. J. Harvey Gibson, M.A. | 1900 | William Hunter, M.D., | 1901 |

*In Arts.*—The Professors and Lecturers in the Faculty of Arts, as specified in Section xxv. of Ordinance No. 13, assisted by the following Additional Examiners:—

| | | |
|---|---|---|
| William A. Lindsay M.A., B.Sc., | Mathematics & Nat. Philosophy, | 1899 |
| James C. Smith, B.A., | Classics, | 1898 |
| Arthur D. Millar, M.A., | Classics, | 1901 |
| Robert B. Pattie, B.D., | Hebrew, | 1900 |
| William F. Trotter, M.A., | Logic and Moral Philosophy, | 1901 |
| Thomas Bayne, | English, | 1901 |
| Robert B. Taylor, M.A. | Political Economy | 1901 |
| Arthur Hassall, M.A., | History, | 1901 |
| Stewart A. Robertson, M.A., | Education, | 1901 |
| Alec Cran, M.A., | French, | 1901 |
| Louis Lubovius, | German, | 1901 |

*In Science.*—Professor Young, M.D., Professor Ferguson, LL.D., Professor M'Kendrick, M.D., Professor Cleland, M.D., Professor Jack, LL.D., Professor Bower, Sc.D., Professor Barr, D.Sc., Professor Biles, Professor Becker, Ph.D., Professor Gray, LL.D., assisted by additional examiners.

*Preliminary Examiners in Arts, Science, and Medicine.*—Professor Ramsay, LL.D., † Professor Jack, LL.D., Professor Phillimore, M.A., Professor Medley, M.A., Professor Raleigh, M.A., † Robert G. Nisbet, M.A., George Macdonald, M.A., Horatio S. Carslaw, D.Sc., † Charles Martin, M.A., Alec Cran, M.A., George P. Thistlethwaite, Ph.D., Louis Lubovius, Alex. V. Lothian, M.A., B.Sc., Robert B. Pattie, B.D., † Henry B. Baildon, M.A., Ph.D., E. J. W. Gibb.

† Members of the Joint Board.

## Other Officials.

| | |
|---|---|
| *Keeper of Hunterian Library and Museum,* | Professor Young, M.D. |
| *Under-Keeper,* | John Mackay. |
| „ (*Pathological Department*), | John H. Teacher, M.A., M.B., C.M. |
| *Librarian,* | James Lymburn. |
| *Sub-Librarian,* | James L. Galbraith. |
| *Secretary to the University Court,* | Alan E. Clapperton, B.L., 91 West Regent Street. |
| *Clerk of Senate,* | Professor Stewart, D.D., 18 Annfield Terrace, Partickhill. |
| *Assistants to the Clerk of Senate,* | W. Innes Addison, Matriculation Office.<br>James Coutts, M.A., Registration Office.<br>Miss Galloway, Secretary at Queen Margaret College. |
| *Registrar of the General Council,* | James Coutts, M.A. |
| *Clerk of the General Council,* | Archibald Craig, LL.B., 156 St. Vincent Street. |
| *Factors,* | Hill & Hoggan, 194 Ingram Street. |
| *Law-Agents,* | Mitchells, Johnston & Co., 160 West George Street. |
| *Auditors,* | Brown, Fleming & Murray, 163 West George Street. |
| *Publishers and Booksellers to the University,* | James MacLehose & Sons, 61 St. Vincent Street. |
| *Printers to the University,* | Robert MacLehose & Co., 153 West Nile Street. |
| *Robe Makers to the University,* | James Thomson & Son, 191 West George Street. |

### HEAD SERVANTS.

| | |
|---|---|
| *Bedellus and Janitor,* | George P. Gibson. |
| *Master of Works,* | John Stitt. |

## Representatives of the University Court on Charitable and other Boards.

*General Medical Council*—Sir William T. Gairdner, K.C.B.
*Western Infirmary*—Mr. Matthew Arthur and Mr. A. E. Clapperton.
*Victoria Infirmary*—Dr. M‘Vail and John Hutchison, LL.D.
*Agricultural College*—Professor Stewart and Dr. M‘Vail.
*Glasgow Samaritan Hospital for Women*—Dr. M‘Vail.
*Highlands and Islands Educational Trust*—Sheriff E. Vary Campbell.
*Stirling Educational Trust*—Mr. Charles King.
*West of Scotland Biological Association*—Thomas Reid, M.D., LL.D.

## Representatives of the Senate on Educational and other Boards

*Glasgow and West of Scotland Technical College*—Professors Young and Barr.
*Glasgow City Educational Endowments Board*—Professor Stewart.
*Glasgow General Educational Endowments Board*—Professors Stewart and Medley.
*Glasgow School of Art*—Professor Raleigh.
*Hutchesons' Educational Trust*—Professor Ramsay.
*John Clark (Mile-End) Bursary Trust*—Professor Stewart.
*Scott Scholarships and Bursaries Trust*—Professor Raleigh.
*Western Infirmary*—Professors Jones and Glaister.
*Royal Infirmary*—Professor Glaister.
*Asylum for the Blind*—Professor Ramsay.
*Glasgow Convalescent Home*—Professor Sir Hector C. Cameron.
*Baillie's Institution*—Professor Ferguson.

## Joint Committees of Senate and Court.

### LIBRARY COMMITTEE.

*Appointed by the Senate*—The Principal and Professors Hastie, Ferguson, Barr, Smart, and Medley.
*Appointed by the University Court*—Dr. David Murray, Mr. W. R. Copland, and Mr. William Ker.

### MUSEUMS COMMITTEE.

*Appointed by the Senate*—The Principal and Professors Young, Stewart, and Ferguson.

*Appointed by the University Court*—Dr. M'Vail and Mr. R. M. Mitchell.

### OBSERVATORY AND LABORATORIES COMMITTEE.

*Appointed by the Senate*—Professors Ferguson, M'Kendrick, Becker, and Gray.

*Appointed by the University Court*—The Lord Provost and Sir James King, Bart.

## Committee on Civil Service and other External Examinations.

Professors Jack, Jones, Smart, Phillimore, Gray, and Medley, Mr. J. M. Irvine and Dr. H. S. Carslaw—Professor Jones, *Convener.*

## Students' Representative Council.

*President*—John Muir.

*Vice-Presidents*—A. F. Bell ; C. A. Young.

*Secretary*—E. R. Mitchell, M.A., Students' Union.

*Assistant Secretaries*—A. Cross, M.A. (Divinity) ; P. Mitchell (Arts) ; A. Leitch (Medicine) ; A. Williamson (Science) ; and Jessie S. MacEwen (Queen Margaret College).

*Treasurer*—J. Chambers, Students' Union.

*Executive Committee*:—The Office-Bearers, with

*Arts*—D. A. Dick, L. P. Richards.

*Medicine*—T. Bennett, M.A., M. Hutton, M.A.

*Queen Margaret College*—Monica M. Gordon (Arts) ; Ethel M. Lochhead (Medicine).

## I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V., by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "*Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate*." He then declares that this University shall have the same power of creating Masters and Doctors as any other "*studium generale*" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of Pædagogium, or the College of Arts. It is said to have been situated in the Rottenrow; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI. prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio.*

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.[1]

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal, a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.[1] In the next thirty years seven Professorships were either originally founded or revived, viz. :—those of Mathematics (1691), Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The remaining eighteen Professorships were founded during the present century, viz. :—Natural History, (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883), History (1893), Pathology (1893), Political Economy (1896).

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[1] This system was altered in 1642, in accordance with the practice of the other Universities; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, Bajan; the second, Semi; the third, Baccalour; the fourth, Magistrand.

## UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted in the fifteenth century as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

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[1] See Dr. Thomas Reid's Account of the University of Glasgow.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies the large amount of £261,429, including £45,000 from the Marquis of Bute for the erection of the Bute Hall, £5,000 from Dr. J. M'Intyre for the University Union Buildings, £5,000 from the Bellahouston Trustees for Medical Buildings in the Women's department, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunninghame, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill, and in these buildings the classes of the University met for the first time in session 1870-71. In 1893 the buildings and grounds were extended by the gift of North Park House and Grounds for the use of the women students of the University. Various additions to the buildings at Gilmorehill are now (1901) in process of being made, including Engineering Lecture-rooms and Laboratory, Botany Class-rooms, Museum and Herbarium, and an extension of the Anatomical Department. The cost of these additions will be defrayed from the Randolph Bequest and from funds provided by the Bellahouston Trustees, the Trustees of the late James B. Thomson, and other benefactors.

## GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858 the whole business of the University was transacted in three distinct courts—namely, the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice Rector presided in this Court, and also in the Senate. Meetings of the Comitia were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, for the administration of the affairs of the University.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council was constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission was created with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners continued to exercise their powers till the end of 1897 and issued ordinances, *inter alia*, for Degrees in Arts, Science, Medicine, Law, and Divinity, for the instruction and graduation of Women, and for special study and research. They also issued an ordinance (No. 60) laying down regulations for the constitution of the Students' Representative Council, and regulations under which that Council is entitled to petition the Senatus Academicus and the University Court.

## CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He nominates an Assessor in the University Court, and he is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

### *Chancellors from the year* 1642.

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|---|---|
| 1642. | James Hamilton Marquis of Hamilton. |
| 1660. | William Cunningham, Earl of Glencairn. |
| 1661. | Andrew Fairfowl, Archbishop of Glasgow. |
| 1664. | Alexander Burnett, ,, ,, |
| 1670. | Robert Leighton, ,, ,, |
| 1674. | Alexander Burnett, ,, ,, |
| 1679. | Arthur Ross, ,, ,, |
| 1684. | Alexander Cairncross, ,, ,, |
| 1687. | John Paterson, ,, ,, |
| 1692. | John Carmichael, Earl of Hyndford. |
| 1714. | James Graham, Duke of Montrose. |
| 1743. | William Graham, ,, ,, |
| 1781. | James Graham, ,, ,, |
| 1837. | James Graham, ,, ,, |
| 1875. | Sir William Stirling-Maxwell, Bart., M.P. |
| 1878. | Walter Francis, Duke of Buccleuch and Queensberry, K.G. |
| 1884. | JOHN HAMILTON DALRYMPLE, EARL OF STAIR, K.T. |

## RECTOR.

The Rector is elected by the matriculated students of the University, divided into four nations.[1] In the case of an equality of nations the Chancellor had, in accordance with the Act of 1858, the casting vote, but under the Act of 1889 the Commissioners have ordained (Ord. No. 7) that the election shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The Universities Commission (1858) ordained that the election should take place upon the 15th November (the

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[1] The nations are constituted as follows:—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.

2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.

3. The Natio Rothseiana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.

4. The Natio Loudoniana consists of all matriculated students not included in any of the other nations.

16th, if the 15th fell on a Sunday); but by Ordinance No. 139 of the Universities Commission (1889), the election is to take place on such day in the month of October or November as may be fixed by the University Court after consultation with the Senate, but the date cannot be later than the second Saturday in November in any year. The term of office is three years. The Rector is the official President of the University Court.

*Rectors from* 1773.

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|---|---|
| 1773. | Charles Cathcart, Lord Cathcart. |
| 1775. | Lord Chief Baron Montgomerie. |
| 1777. | Andrew Stewart, Esq. of Torrance. |
| 1779. | James Maitland, seventh Earl of Lauderdale. |
| 1781. | Right Hon. Henry Dundas. |
| 1783. | Right Hon. Edmund Burke. |
| 1785. | Robert Graham, Esq. of Gartmore. |
| 1787. | Adam Smith, LL.D. |
| 1789. | Walter Campbell, Esq. of Shawfield. |
| 1791. | Thomas Kennedy, Esq. of Dunure. |
| 1793. | William Mure, Esq. of Caldwell. |
| 1795. | William M'Dowall, Esq. of Garthland. |
| 1797. | George Oswald, Esq. of Auchincruive. |
| 1799. | Right Hon. Sir Ilay Campbell, Lord President. |
| 1801. | William Craig, a Lord of Session. |
| 1803. | Lord Chief Baron Dundas. |
| 1805. | Henry Glassford, Esq. of Dugalston. |
| 1807. | Archibald Colquhoun, Esq. of Killermont. |
| 1809. | Archibald Campbell, Esq. of Blythswood. |
| 1811. | Lord Archibald Hamilton. |
| 1813. | Thomas Graham, Lord Lynedoch. |
| 1815. | David Boyle, Lord Justice Clerk. |
| 1817. | George Boyle, Earl of Glasgow. |
| 1819. | Kirkman Finlay, Esq., M.P. |
| 1820. | Francis Jeffrey, Esq., Advocate. |
| 1822. | Sir James Mackintosh, M.P. |
| 1824. | Henry Brougham, Esq., M.P. |
| 1826. | Thomas Campbell, LL.D. |
| 1829. | Henry Petty, Marquis of Lansdowne. |
| 1831. | Henry Cockburn, Esq., Solicitor-General. |
| 1834. | Lord Stanley, M.P. |
| 1836. | Sir Robert Peel, Bart., M.P. |
| 1838. | Sir J. G. R. Graham, Bart., M.P. |
| 1840. | John Campbell, Marquis of Breadalbane. |
| 1842. | Right Hon. Fox Maule, M.P. |
| 1844. | Andrew Rutherford, Esq. |
| 1846. | Lord John Russell. |

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| 1847. | Colonel Mure of Caldwell. |
| 1848. | Thomas Babington Macaulay, Esq. |
| 1850. | Archibald Alison, Esq., Sheriff of Lanarkshire. |
| 1852. | Earl of Eglinton. |
| 1854. | Duke of Argyle. |
| 1856. | Sir Edward Bulwer Lytton. |
| 1859. | Earl of Elgin. |
| 1862. | Viscount Palmerston. |
| 1865. | John Inglis, Lord Justice Clerk. |
| 1868. | Lord Stanley (afterwards Earl of Derby). |
| 1871. | Right Hon. Benjamin Disraeli, M.P. (Earl of Beaconsfield). |
| 1877. | Right Hon. William Ewart Gladstone, M.P. |
| 1880. | Right Hon. John Bright, M.P. |
| 1883. | Right Hon. Henry Fawcett, M.P. |
| 1884. | Edmund Law Lushington, LL.D., D.C.L. |
| 1887. | Right Hon. Earl of Lytton, G.C.B., G.C.S.I., C.I.E. |
| 1890. | Right Hon. Arthur James Balfour, M.P. |
| 1893. | Right Hon. Sir John Eldon Gorst, M.P. |
| 1896. | Right Hon. Joseph Chamberlain, M.P. |
| 1899. | Right Hon. Earl of Rosebery, K.G., D.C.L., LL.D. |

## DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title of Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

### *Deans from the year* 1800.

1800. James Couper, D.D.
1802. Archd. Campbell, Esq. of Succoth.
1804. Gavin Gibb, D.D.
1806. Duncan Macfarlan, D.D.
1808. Gavin Gibb, D.D.
1810. Duncan Macfarlan, D.D.
1812. Gavin Gibb, D.D.
1814. Stevenson Macgill, D.D.
1815. Archibald Campbell, Esq., M.P.
1817. Sir John Connel.
1819. Archibald Campbell, Esq., M.P.
1821. Sir John Connel.
1823. Archibald Campbell, Esq., M.P.
1825. Sir John Connel.
1827. Archibald Campbell, Esq., M.P.
1829. Sir John Connel.
1831. Archibald Campbell, Esq.
1833. Sir A. Campbell, Bart.
1835. Archibald Campbell, Esq.
1837. Sir A. Campbell, Bart.
1839. Kirkman Finlay, Esq.
1841. Lord Dunfermline.
1843. Sir T. Makdougall Brisbane, Bart.
1845. A. Maconochie, Lord Meadowbank.
1847. Earl of Eglinton.
1849. Colonel Mure of Caldwell, M.P.
1851. W. Lockhart, Esq., M.P.
1853. Colonel Mure.
1854. W. Lockhart, Esq.
1857. W. Stirling, Esq., of Keir, M.P.
1860. J. Moncreiff, Lord Advocate.
1863. Sir A. I. Campbell of Succoth.
1865. Henry Glassford Bell, Esq.
1868. Sir James Fergusson, Bart.
1869. Sir Thos. E. Colebrooke, Bart., M.P.
1872. Archd. Orr Ewing, Esq., M.P.
1876. Alexander B. M'Grigor, LL.D.
1879. James King, Esq.
1882. R. W. Cochran-Patrick, LL.D., M.P.
1885. Alexander Crum, Esq., M.P.
1888. Robert Berry, LL.D.
1896. W. P. Dickson, D.D., LL.D.
1901. THE RIGHT HON. LORD KELVIN, G.C V.O.

## PRINCIPAL.

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the Senatus Academicus; and is also, *ex officio*, a member of the University Court.

### *Principals from the year* 1574.

1574. Andrew Melville.
1580. Thomas Smeaton.
1586. Patrick Sharpe.
1615. Robert Boyd.
1622. John Cameron, D.D.
1626. John Strang, D.D.
1650. Robert Ramsay.
1653. Patrick Gillespie.
1661. Robert Baillie, D.D.
1662. Edward Wright.
1684. James Fall.
1690. William Dunlop.
1701. John Stirling.
1728. Neil Campbell.
1761. Wm. Leechman, D.D.
1786. Archd. Davidson, D.D.
1803. William Taylor, D.D.
1823. Duncan M'Farlan, D.D.
1858. Thomas Barclay, D.D.
1873. John Caird, D.D.
1898. ROBERT HERBERT STORY, D.D., LL.D.

## UNIVERSITY COURT.

The University Court consists of (*a*) the Rector, (*b*) the Principal, (*c*) the Lord Provost of Glasgow for the time being, (*d*) an Assessor nominated by the Chancellor, (*e*) an Assessor nominated by the Rector, (*f*) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (*g*) four Assessors elected by the General Council, (*h*) four Assessors elected by the Senatus Academicus. There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

*Assessors since the University Court was constituted.*

CHANCELLOR.

1859. John Robertson, D.D., Glasgow.
1865. A. Sym, D.D., New Kilpatrick.
1870. James Pearson, D.D., Strathblane.
1874. Robert Jamieson, D.D., Glasgow.
1878. J. A. Campbell, LL.D., Stracathro.
1887. SIR JAMES KING, BART., LL.D.

RECTOR.

1860. Thomas Buchanan, Esq.
1863. Walter Buchanan, Esq., M.P.
1866. Archibald Orr Ewing, Esq.
1869. James A. Campbell, LL.D.
1878. Alexander Crum, Esq.
1880. Charles Cameron, M.D., LL.D., M.P.
1884. A. B. M'Grigor, LL.D.
1887. James Grahame, Esq.
1890. Lord Blythswood, LL.D.
1893. Matthew P. Fraser, LL.B.
1896. David Murray, LL.D.
1899. ALEXANDER URE, LL.B., M.P., Q.C.

LORD PROVOST, MAGISTRATES, AND TOWN COUNCIL OF GLASGOW.

1889. James Colquhoun, LL.D.
1899. ROBERT M. MITCHELL, Esq.

GENERAL COUNCIL.

1859. Andrew Bannatyne, LL.D.
1864. Lord Kinloch.
1867. Anderson Kirkwood, LL.D.
1887. R. W. Cochran-Patrick, LL.D.
1889. David Hannay, Esq.
1889. Hector C. Cameron, M.D.
1889. Sir John Neilson Cuthbertson.
1891. Rev. J. W. King, M.A., D.D.
1891. D. C. M'Vail, M.B.
1893. Hector C. Cameron, M.D.
1893. Sir John Neilson Cuthbertson.
1895. Rev. J. W. King, D.D.
1895. D. C. M'Vail, M.B.

| | |
|---|---|
| 1897. | Hector C. Cameron, M.D. |
| 1897. | Sir John Neilson Cuthbertson, LL.D. |
| 1899. | D. C. M'Vail, M.B. |
| 1899. | Sir James Bell, Bart. |
| 1900. | William Robertson Copland, Esq. |

### SENATUS ACADEMICUS.

| | |
|---|---|
| 15th Nov., 1859. | Professor W. Ramsay, M.A. |
| 11th Dec., 1863. | Professor R. Buchanan, LL.D. |
| 12th Dec., 1867. | Professor Allen Thomson, M.D. |
| 11th Jan., 1872. | Professor Sir W. Thomson. |
| 13th Jan., 1876. | Professor Cowan, M.D. |
| 29th Jan., 1880. | Professor Berry, M.A., LL.D. |
| 31st Jan., 1884. | Professor Dickson. D.D., LL.D. |
| 9th Feb., 1888. | Professor G. G. Ramsay, LL.D. |
| 28th Nov., 1889. | Professor Leishman, M.D. |
| 28th Nov., 1889. | Sheriff Berry, LL.D. |
| 28th Nov., 1889. | Professor Stewart, D.D. |
| 28th Nov., 1890. | Professor Ramsay, LL.D. |
| 30th Nov., 1891. | Professor Leishman, M.D. |
| 28th Nov., 1892. | Sheriff Berry, LL.D. |
| 28th Nov., 1893. | Professor Stewart, D.D. |
| 30th Nov., 1893. | Professor Gairdner, M.D., LL.D. |
| 28th Nov., 1894. | Professor Jack, LL.D. |
| 30th Nov., 1895. | Sir W. T. Gairdner, K.C.B., M.D., LL.D. |
| 28th Nov., 1896. | Sheriff Berry, LL.D. |
| 28th Nov., 1897. | Professor Stewart, D.D. |
| 28th Nov., 1898. | Professor Adamson, LL.D. |
| 30th Nov., 1899. | Professor Young, M.D. |
| 28th Nov., 1900. | Professor Moir, LL.D. |

The Rector's Assessor continues in office three years, and the other Assessors four years.

Under the Universities Act, 1858, the Court has power:

1. To review all decisions of the Senate, and to be a Court of Appeal from the Senatus, except as otherwise provided in the Universities Act.

2. To effect improvements in the internal arrangements of the University, after due communication with the Senate, and with the sanction of the Chancellor: provided that all such proposed improvements be submitted to the General Council for consideration.

3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching and other duties imposed on the Professors.

4. To fix and regulate, from time to time, the fees in the several Classes.

5. Upon sufficient cause shown, and after due investigation, to censure any member of Senate, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire on a retiring allowance, or to deprive him of office; and during the suspension of any Professor, to make provision for the teaching of his class: provided always, that no such sentence of censure, deprivation, etc., shall have effect until approved by Her Majesty in Council.

By Section 19 any of the Rules and Ordinances enacted by the Universities Commissioners under the Act, may be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of Her Majesty in Council.

By the Universities (Scotland) Act, 1889, the University Court is a body corporate with perpetual succession and a common seal; and all the property belonging to the University at the passing of the Act is now vested in that body.

By the same Act, the University Court, in addition to the powers conferred upon it by the Act of 1858, has power:

1. To administer the whole revenue and property of the University, including share of annual Government Grant, and bursary and other mortifications.

2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested,[1] and to receive representations and reports from the Senate and the General Council.

3. To review on representation by any member of the University Court or by any member of Senate, any decisions of the Senate in the exercise of its powers of regulating and superintending the teaching and discipline of the University; but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.

4. To appoint professors to chairs in University patronage; to appoint examiners and lecturers; and to recognise for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.

5. To define on application by any member of the Senate the nature and limits of a professor's duties under his commission, subject to appeal to the Universities Committee.[2]

6. To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or any other person employed in teaching or examining.

7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.

8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special instructions.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

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[1] An appeal against any decision of the Senate must be lodged with the Secretary of the University Court within fourteen days from the date of the issue of such decision. See Ordinance No. [illegible]

[2] Ordinance No. 143, which was passed on [illegible] March, [illegible], and came into force immediately after the expiration of the powers of the Commissioners (1889), empowers the University Court at any time to revise and adjust the terms of the commission to be issued at the next vacancy of any chair, with regard to the number of lectures and the period of instruction.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee.[1] After such expiration no new professorship shall be founded otherwise.

By Section 21 of the Act of 1889 the University Court has power to make new ordinances, with the approval of Her Majesty in Council:

1. With respect to the appropriation of the sum allotted to the University by the Commissioners out of the annual grant.
2. Altering or revoking any of the ordinances affecting the University which have been or may be framed and passed under the Act of 1858 or the Act of 1889, and making new ordinances: provided that such ordinances, before being submitted to Her Majesty for approval, have been communicated by the University Court to the Senate, the General Council, and the University Courts of the other Universities, and have been laid for twelve weeks before both Houses of Parliament.

The Court is entrusted with the patronage of several of the Professorships, appoints the additional Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

## SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the regulation and superintendence of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Senate continues to possess and exercise the powers possessed by it before the passing of the Act of 1889 so far as they are not modified or altered by that Act or by the Act of 1858. The Principal, as President, has a deliberative and a casting vote. One third of the Senate constitute a quorum.

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[1] Ordinance No. 144 enjoins the University Court before proceeding to the foundation of any new Professorship, to ascertain that there are sufficient means for its endowment, and also to take into consideration the contingent claim which the Professor may have to a pension.

## FACULTIES.

The Universities Commissioners, by Ordinance No. 31, dated 5th June, 1893, settled the constitution of the several Faculties in this University, as follows:—I. The Faculty of Arts consists of the Professors of the following subjects, viz., English Language and Literature, Humanity, Greek, Hebrew and Semitic Languages, Mathematics, Natural Philosophy, Logic and Rhetoric, Moral Philosophy, History, Political Economy.[1] II. The Faculty of Science consists of the Professors of the following subjects, viz., Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History, Botany, Anatomy, Physiology, Civil Engineering and Mechanics, Naval Architecture. III. The Faculty of Medicine consists of the Professors of the following subjects, viz., Chemistry, Natural History, Botany, Anatomy, Physiology, Pathology, Materia Medica, Medicine, Surgery, Midwifery, Forensic Medicine, Clinical Medicine, Clinical Surgery. IV. The Faculty of Law consists of the Professors of the following subjects, viz., Law, Forensic Medicine, Conveyancing, Political Economy.[1] V. The Faculty of Divinity consists of the Professors of the following subjects, viz., Divinity, Divinity and Biblical Criticism, Ecclesiastical History, Hebrew and Semitic Languages. The University Court has power to transfer Chairs from one Faculty to another, and in the event of the foundation of new Chairs, to determine to which Faculty or Faculties such Chairs shall belong.

The Professors constituting each Faculty annually elect one of their number to be Dean of the Faculty.

## LECTURERS.

By Ordinance No. 17[2] of the Universities Commission (1889), the University Court is empowered to appoint, after consultation with the Senatus, Lecturers, whose teaching shall (unless otherwise determined by the University Court) qualify for graduation. They are appointed for a period not exceeding five years, but may be re-appointed. University Assistants or Demonstrators are eligible for appointment as Lecturers and *vice versa*; and both offices may be held at the same time by the same person.

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[1] See Ordinance No. 149, Section i.

[2] This ordinance is printed at length in the University Calendar for 1893-94, at p. 504, 505.

Ordinance No. 65 provides that the classes of University Lecturers shall be conducted at the seat of the University, *i.e.* in the city of Glasgow and the immediate neighbourhood thereof, that no classes conducted by Lecturers elsewhere shall qualify for graduation in any Faculty, and that University Lecturers shall be in all respects subject to the discipline of the Senatus Academicus and of the University Court.

## BOARDS OF STUDIES.

By Ordinance No. 11 of the Universities Commission (1889), it is provided that the Senate shall institute Boards of Studies corresponding as nearly as may be to the departments of study for graduation in Arts. Each Board of Studies consists of the Principal, the Dean of the Faculty of Arts, and such other members of the Senate and Lecturers in the University as the Senate may from time to time select, a member of the Board being appointed Convener by the Senate. The functions of these Boards are defined in Ordinance No. 11, sections xviii. and xix.

Provision is made in Ordinance No. 42 for the institution of one or more Boards of Studies in each of the Faculties of Medicine and Science. In Medicine the constituent members of the Board or Boards are Professors in the Faculty of Medicine, together with such Professors in other Faculties whose subjects qualify for graduation in Medicine, and such Lecturers in the University as the Senate may from time to time select. The Board or Boards of Studies in Science are similarly constituted *mutatis mutandis.* The Dean of the Faculty of Medicine is Convener of each Board of Studies in Medicine; the Senate appoints the Convener of each Board of Studies in Science.

## UNIVERSITY ASSISTANTS OR DEMONSTRATORS.

By Ordinance No. 17[1] of the Universities Commission (1889), the University Court is empowered to determine, after consultation with the Senatus, the number and grade of the Assistants, if any, to be assigned to each Professor. The appointments are made by the University Court on the recommendation of the Professors. The duties of each Assistant are defined by the Professor, with the approval of the Senate. The Assistants are recognized as Officers of the University, and are styled University Assistants or Demonstrators, as the University Court may determine.

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[1] See second note on page 43.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1877, to the Chair of Physiology; and the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Natural History.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, and designated, in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

## EXAMINERS FOR DEGREES.

By Ordinance No. 13, Sections xiv.—xvi., of the Universities Commission (1889), the Examiners for graduation in Arts, Science, and Medicine respectively are the Professors whose subjects qualify for graduation, together with such Lecturers in the University and such additional Examiners, appointed by the University Court, as the Court may deem necessary. In the case of Medicine, the Court is required to make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

By Ordinances No. 39, Section vii., and No. 40, Section vii., of the Universities Commission (1889), the Examiners for graduation in Law are the Professors and Lecturers whose subjects qualify for graduation, and additional Examiners appointed by the University Court.

By Ordinance No. 63, Section ii., of the Universities Commission (1889), the Examiners for graduation in Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

## GENERAL COUNCIL.

[*For names, etc., of Members, see Appendix.*]

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually in the month of December, for the year following, and includes the names of all members entered on the Registration Book on or before the 30th day of November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on the last Wednesday of October, and the first Wednesday of April. In addition to these statutory meetings the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at ten for every complete thousand or fraction of a thousand on the Register, so that for the present year sixty members are requisite to constitute a quorum, there being 5827 names on the Register, but this provision does not apply to the statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance No. 9 of the Universities Commission (1889). The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Chancellor's Assessor; whom failing, the Rector's Assessor. In the absence of all these officials, a Chairman shall be elected by the meeting; but in the election of Assessors the members of Senate may not take part.

The General Councils of the Universities of Glasgow and Aberdeen jointly return a representative to Parliament. The Vice-Chancellor of Glasgow University is the returning officer.

*Members of Parliament for the Universities of Glasgow and Aberdeen.*

1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.
1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.
1876. Right Hon. William Watson, LL.D., Lord Advocate.
1880. Right Hon. JAMES ALEXANDER CAMPBELL, LL.D.

## STUDENTS' REPRESENTATIVE COUNCIL.

The constitution and functions of the Students' Representative Council are regulated by Ordinance No. 60, the provisions of which are as follows :—

I. The Students' Representative Council in each University shall submit to the University Court for approval the regulations under which it has been formed or now exists, and these regulations as approved, or with such alterations as may from time to time be approved by the University Court, shall form the constitution of the Students' Representative Council, and shall, subject to the provisions of this Ordinance, determine the functions thereof, and the mode of election thereto.

II. After the University Court has approved of the constitution of a Students' Representative Council in any University, alterations in the said constitution shall be of no effect unless and until they shall receive the approval of the University Court.

III. (1) The Students' Representative Council shall be entitled to petition the Senatus Academicus with regard to any matter affecting the teaching and discipline of the University, and the Senatus Academicus shall dispose of the matter of the petition, or shall, if so prayed, forward any such petition to the University Court, with such observations as it may think fit to make thereon.

(2) The Students' Representative Council shall be entitled to petition the University Court with regard to any matter affecting the students other than those falling under the immediately preceding sub-section.

(3) Nothing contained in this section shall be held to prejudice any right of appeal which may be competent under section 6, sub-section 2, of the Universities Act, 1889, nor the powers and jurisdiction of the Senatus Academicus with regard to the teaching and discipline of the University.

The Council at present consists of representatives (both men and women) from the different Faculties in the University, and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the Students. A Union Committee appointed by the Council completed in Session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the winter session the "Glasgow University Magazine" (published weekly), an Amusements Committee, a Lodgings Committee, and a Book Exchange Committee.

*Presidents of the Students' Representative Council.*

| | | | |
|---|---|---|---|
| 1885-86. | R. M. Wenley, M.A. | 1894-95. | W. M. R. Pringle, M.A. |
| 1886-87. | Gavin Lambie, M.A. | 1895-96. | John S. Thomson, M.A. |
| 1887-88. | C. E. Robertson, M.B., C.M. | 1896-97. | Hyam Goodman, M.A. |
| 1888-89. | John H. Harley, M.A. | 1897-98. | Arth. S. Middleton, M.A. |
| 1889-90. | Robert Bell, M.B., C.M. | 1898-99. | James M. Black, M.A. |
| 1890-91. | William Newlands. | 1899-1900. | Ivy M'Kenzie, M.A., B.Sc. |
| 1891-92. | John White, M.A. | | |
| 1892-93. | R. S. Horne, M.A. | 1900-1901. | John Muir. |
| 1893-94. | John H. Pagan, B.D. | | |

## STUDENTS

Number of Students in the several Faculties, Session 1900-1901:—

MEN.

| | | |
|---|---|---|
| In Arts (including Summer Matriculation of 1900, 5), | 662 | |
| Science (including Summer Matriculation of 1900, 1), - | 161 | |
| Theology, - - | 41 | |
| Medicine (including Summer Matriculation of 1900, 78), - | 600 | |
| Law (including Summer Matriculation of 1900, 1), - - | 196 | |
| Arts and Medicine, - - - - - - - - - - | 11 | |
| Arts and Science, - - - - - - - - - - | 4 | |
| Arts and Law, - - - - - - | 7 | |
| Science and Medicine, - - - - - - - - | 1 | |
| Science and Law, - - - - - - | 1 | |
| Single class enrolment, - - - - - - - | 8 | |
| | —— | 1692 |

WOMEN.

| | | |
|---|---|---|
| In Arts, - - - - - - - - - - - - - - | 271 | |
| Science, - - - - - - - - - - - - - | 6 | |
| Medicine (including Summer Matriculation of 1900, 11), - | 62 | |
| Arts and Medicine, - - - - - - - - - - | 2 | |
| | —— | 341 |
| Total, - - - - | | 2033 |

Ordinance No. 50 of the Universities Commission (1889) requires that each student shall pay a matriculation fee of One Guinea, at the commencement of each winter session, for the whole academical year then next ensuing; and any student desirous of attending a class or classes during a summer session, without having matriculated at the commencement of the immediately preceding winter session, shall in respect of such summer session pay a matriculation fee of half a guinea. Ordinance No. 147 contains the following regulation with regard to matriculated students:—No person shall be deemed to be a matriculated student in any University or shall enjoy any of the privileges of a matriculated student unless, in addition to paying the matriculation fee, he is enrolled as a student in attendance in one or more classes in the University, and has paid the fees entitling him to such attendance: provided that nothing herein contained shall affect the right of the University Court to exact a fee in lieu of and not exceeding the matriculation fee from any candidate for any examination or for graduation, not being at the time a matriculated student, in addition to the fee payable for such examination or graduation. The University Court is empowered in special circumstances to permit persons who have not matriculated to attend any single class in any Faculty, on payment of an Entrance Fee of Five Shillings in addition to the authorized class fee, subject to the following provisions, viz.:—(1) That attendance on any class without payment of the matriculation fee shall not qualify for graduation in any Faculty, (2) that persons who have not paid the matriculation fee shall not be entitled to a certificate of attendance on any class, and (3) that payment of such entrance fee shall not confer any University privilege other than the right of attendance on such class. The office of the Clerk of Senate will be open for the purpose of Matriculation on and after 16th October.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and, under certain conditions, to the Hunterian Museum; they are also entitled to vote for the Lord Rector. They are classified as students in Arts, Science, Medicine, Law, and Divinity, according to the nature of their studies; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some favourite branches of learning or science, by attending the lectures given at the University.

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

By Ordinance No. 18[1] of the Universities Commission (1889) the University Court was empowered to admit women to graduation, and to provide for their instruction, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. Under this ordinance women were for the first time admitted as matriculated students of this University in Session 1892-93.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University. In the Royal Infirmary certain wards are appropriated to the clinical instruction of women.

## UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate, of which the Principal is Convener.

Public Worship is celebrated on certain Sundays during the Winter Session at 2.30 P.M., in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

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[1] This ordinance is given in full in the *University Calendar* for 1892-93, pp. 504-506.

## GYMNASIUM.

This building was erected by public subscription, and fitted according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2600, and was opened for the first time in January, 1872.

The Gymnastic classes are conducted by Mr. Benson and an assistant instructor, and there is a separate instructor for Boxing. Classes are held on Mondays, Wednesdays, and Fridays from 10 A.M. till 1 P.M., and from 4.30 P.M. till 5.30. P.M. Students may join any one of the above classes. Each class meets three days a week.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and a special evening class is formed for their benefit, which meets on Mondays and Thursdays from 8 P.M. till 10 P.M.; also a Boxing class which meets on Wednesdays at 8 P.M.

Fees.—Gymnastics. *For all Students:* One month, 5s.; Two months, 8s. 6d.; Three months, 12s.; Six months, 20s. *For Non-Students:* the Quarter (*i.e.* twice a-week for three months), 15s.; whole season (seven months), 35s. Fencing and Boxing: 10s. for a course of twelve lessons. Special arrangements are made for the summer session.

The Oxford Silver Medal, presented annually by the late Mr. Maclaren, for competition among the students, is continued by the Gymnasium, and, at the competition in March, 1901, was gained by Frederick Mort, M.A. The Bronze Medal for competition among the non-students is also continued, and in 1901 was gained by J. R. R. Middleton.

Badges presented by the Ladies of the University are awarded to the second in each of the annual competitions for the Oxford Silver and Bronze Medals; in 1901 they were gained by A. S. Dunlop and J. S. Doran respectively.

In 1899 Professor Ramsay presented to the Gymnasium a Silver Challenge Cup for annual competition among teams representing the four Nations into which students are divided in voting at the Rectorial elections. In the competition held in March, 1901, the winning team was Rothseiana, composed of the following members: R. T. Wells, J. S. Dunlop, A. S. Dunlop, and James Austin.

Gymnastic classes for members of Queen Margaret College are held on Tuesdays and Thursdays at 4.30 P.M.

The Gymnasium is managed by a joint-committee of professors and students.

*Hon Treasurer*, Alan E. Clapperton, B.L., 91 West Regent Street, Glasgow.

*Hon. Secretary*, R. T. Wells, M.A., 4 Knowe Terrace, S.S.

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### ARMY COMMISSIONS FOR UNIVERSITY CANDIDATES.

1. Graduates in Arts or in Science of this University, and students who have passed all the examinations for the Degree of M.A. or for the Degree of B.Sc., are eligible for Commissions in the Cavalry and Infantry of the line. The limits of age are from 17 to 23.

2. Students of this University who have passed "the Examination of Candidates for the Army," are also eligible for Commissions. They are required to attend one class in each of the following three departments, viz.: *(a)* Latin or Greek; *(b)* Logic or Moral Philosophy or English Literature; *(c)* Mathematics or Natural Philosophy,—and to pass the examination on the M.A. standard in the three subjects in which they have attended classes. The limits of age in this case are from 17 to 22

Candidates for Certificates of having passed the Examination for the Army must enter their names and pay the Fees at the Matriculation Office at the same times as Candidates for the M.A. Examinations. The Fee for the Examination is Two Guineas.

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### TRAINING FOR THE HOME CIVIL SERVICE, THE INDIAN CIVIL SERVICE, AND EASTERN CADETSHIPS.

The Senate desire to make known the facilities offered to the students of the University who wish to prepare for the open competition for these appointments while carrying on their studies for the M.A. or B.Sc. degree. The range of subjects and the scale of marks are well adapted to the course of study pursued by the student for the Honours degree in Arts. Intending candidates should in all cases read for Honours—in at least one group. The age limits allow ample time for a second Honours school—if thought advisable; and the combination of Classical Honours with those of any of the other departments—such as Mathematics and Natural Philosophy, History, English, Philosophy, Economic Science, or Modern Languages—would be extremely valuable for the purpose. Students of Mathematics may be more fitted to take up the scientific subjects—Physics, Chemistry, Botany, Zoology, Geology, etc. Suitable preparation for these will be found in the courses for the degree of B.Sc. in Pure Science, and it is believed that the change in the regulations noted on p. 55 will make these subjects specially valuable to students of this University. Some of the courses for the degrees in Law are also recommended to candidates.

The following table shows the subjects of examination, with the marks assigned to each, and also the classes in the University which are suitable in each case.

N.B.—*The regulations are liable to alteration from year to year.*

| *Subject of Examination.* | *Marks.* | *Classes in the University.* |
|---|---|---|
| Latin Language and Literature, | 750 | Latin: Honours. |
| Roman History, | 400 | Latin: Honours: Roman Law. |
| Greek Language and Literature, | 750 | Greek: Honours. |
| Greek History, | 400 | |
| Mathematics (Pure and Applied), | 900 | Mathematics: Intermediate and Advanced Honours.<br>Natural Philosophy: Ordinary and Honours. |
| Advanced Mathematics (Pure and Applied, | 900 | |
| Elementary Physics and Elementary Chemistry, | 600[1,2] | Natural Philosophy: Ordinary: and Physical Laboratory.<br>Chemistry and Chemical Laboratory. |
| Higher Physics, | 600[1] | Physical Laboratory. |
| Higher Chemistry, | 600[1] | Chemical Laboratory. |
| Geology, | 600[1] | Geology. |
| Botany, | 600[1] | Botany and Botanical Laboratory. |
| Zoology, | 600[1] | Zoology and Zoological Laboratory. |
| Animal Physiology, | 600[1] | Physiology and Physiological Laboratory. |
| English Composition, | 500 | English: Ordinary. |
| English Language and Literature, | 500 | English: Ordinary and Honours. |
| English History, | 500 | History: Ordinary.<br>Constitutional Law and History. |
| General Modern History (Special Period), | 500 | History: Honours. |
| Logic and Mental Philosophy, | 400 | Logic. |
| Moral Philosophy, | 400 | Moral Philosophy. |
| Political Economy and Economic History, | 500 | Political Economy. |
| Political Science, | 500[3] | |

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[1] Any number not exceeding three to be taken.

[2] This subject may not be taken by those who offer either Higher Physics or Higher Chemistry. See the changes in the regulations noted at the end of this table.

[3] Preparation for this subject may be obtained in the Political Philosophy Class, in the Moral Philosophy (Honours) Class, in the Political Economy (Honours) Class, and in certain of the Law Classes.

| *Subject of Examination.* | *Marks.* | *Classes in the University.* |
|---|---|---|
| nglish Law, | 500 | |
| oman Law, | 500 | Roman Law. |
| rench Language and Literature. | 500 | French. |
| erman ,, ,, ,, | 500 | German. |
| anskrit ,, ,, ,, | 500 | |
| rabic ,, ,, ,, | 500 | Arabic. |

*N.B.* After the examination in 1901, 'Elementary Chemistry and Elementary Physics' will cease to be a separate subject, and the subjects in Natural Science will be as follows:—

Any number not exceeding *three* of the following subjects:—

| | Marks. | | Marks. |
|---|---|---|---|
| Chemistry, | 600 | Botany, | 600 |
| Physics, | 600 | Zoology, | 600 |
| Geology, | 600 | Animal Physiology, | 600 |

Candidates may profess any or all of these branches of knowledge. No subjects are obligatory. The marks assigned in each branch will be subject to such deduction as the Civil Service Commissioners may deem necessary in order to secure that no credit be allowed for merely superficial knowledge. No deduction will be made in the subjects of English Composition and Mathematics.

### *Age Limits.*

*Home Civil Service.* Clerkships (Class I.).

Candidates must have attained the age of 22, and must not have attained the age of 24, on the first day of the examination.

*Indian Civil Service.*

Candidates must have attained the age of 21, and must not have attained the age of 23, on the first day of the year in which the examination is held.

*Eastern Cadetships.*

Candidates must have attained the age of 21, and must not have attained the age of 24, on the first of August in the year in which the examination is held.

N.B.—Students who propose to enter for this examination are strongly advised to determine at the beginning of their course what line of study they can best follow, and to acquaint their Professors or Lecturers with their plans. Full particulars with regard to the competition will be found in the publications of the Civil Service Commission, which may be consulted in the University Reading-Room.

On this subject the Senate, in 1899, appointed a Committee consisting of Professors Jack, Jones, Smart, Phillimore, Gray, Medley, Mr. J. M. Irvine, and Dr. H. S. Carslaw—Professor Jones, convener, and Dr. Carslaw, secretary. The members of this Committee will be glad to give any further information or advice.

## *II.—TABLE OF UNIVERSITY FEES.*

### I.—MATRICULATION FEES.

| | | | |
|---|---|---|---|
| At the commencement of each Academical Year, which extends from 1st October to 30th September, and includes both Winter and Summer Sessions, | £1 | 1 | 0 |
| At the commencement of each Summer Session, if the Student has not matriculated for the Academical Year then current, | 0 | 10 | 6 |

### II.—ENTRANCE FEES.

| | | | |
|---|---|---|---|
| On admission, in special circumstances, of persons who are not matriculated Students of the University to any single class in any Faculty, | 0 | 5 | 0 |

N.B.—Attendance under this Regulation does not qualify for Graduation, and no Certificate for such attendance is given. The Entrance Fee confers no University privileges other than the right of attendance above mentioned.

### III.—ENROLMENT FEES (extra-mural lectures).

| | | | |
|---|---|---|---|
| At the commencement of each year of attendance on the lectures of Extra-Academical Teachers in Glasgow, whose Lectures are recognised for Graduation in Medicine or Science, | 1 | 1 | 0 |

### IV.—EXAMINATION FEES.

| | | | |
|---|---|---|---|
| For Preliminary Examinations in Arts, Science, or Medicine— | | | |
| On each entry for Examination, | 0 | 10 | 6 |
| For Degree of Master of Arts (M.A.)—New Regulations— | | | |
| The Fee for this Degree is | 5 | 5 | 0 |
| Payable £1 1s. on entering for Examination in each subject till £5 5s. are paid. | | | |
| For Degree of Bachelor of Science (B.Sc.)—New Regulations— | | | |
| The Fee for this Degree is | 5 | 5 | 0 |
| Payable £1 1s. on entering for Examination in each subject till £5 5s. are paid. | | | |
| For Diploma in Education— | | | |
| On entering for Examination, | 2 | 2 | 0 |
| For Certificate in Engineering Science— | | | |
| On entering for last subject of Examination, | 1 | 1 | 0 |
| For Degree of Doctor of Letters (D.Litt.)— | | | |
| On lodging Thesis, | 10 | 10 | 0 |
| For Degree of Doctor of Philosophy (D.Phil.)— | | | |
| On lodging Thesis, | 10 | 10 | 0 |
| For Degree of Doctor of Science (D.Sc.)— | | | |
| On lodging Thesis, | 10 | 10 | 0 |

| | | | |
|---|---|---|---|
| For Degrees of Bachelor of Medicine (M.B.), and Bachelor of Surgery (Ch.B.) | | | |
| On entering for First Professional Examination, | £6 | 6 | 0 |
| ,, Second ,, ,, | 6 | 6 | 0 |
| ,, Third ,, ,, | 5 | 5 | 0 |
| ,, Fourth ,, ,, | 5 | 5 | 0 |
| For Degree of Doctor of Medicine (M.D.)—Old Regulations— | | | |
| On lodging Thesis, | 5 | 5 | 0 |
| For Degree of Doctor of Medicine (M.D.)—New Regulations— | | | |
| On entering for Examination, | 10 | 10 | 0 |
| For Degree of Master of Surgery (Ch.M.)— | | | |
| On entering for Examination, ... ... ... | 10 | 10 | 0 |
| For Degree of Bachelor of Laws (LL.B.)—New Regulations— | | | |
| The Fee for this Degree is ... ... ... ... | 6 | 6 | 0 |
| Payable £1 1s. on entering for each subject till £6 6s. are paid. | | | |
| For Degree of Bachelor of Law (B.L.)—New Regulations— | | | |
| The Fee for this Degree is ... ... ... ... | 5 | 5 | 0 |
| Payable £1 1s. on entering for each subject till £5 5s. are paid. | | | |
| For Degree of Bachelor of Divinity (B.D.)— | | | |
| On entering for Examination in First Department, | 2 | 12 | 6 |
| ,, ,, Second ,, | 2 | 12 | 6 |
| For Examination of Candidates for the Army— | | | |
| On entering for Examination,... .. ... ... | 2 | 2 | 0 |

V.—Class Fees (see pages 58—63 and 136, 137).

VI.—Library Fees.

| | | | |
|---|---|---|---|
| Each Member of the General Council, each year (commencing 14th October) in which he wishes use of Library, | 0 | 10 | 6 |
| Or, | | | |
| This may be compounded for by a single payment of | 5 | 5 | 0 |
| Every Matriculated Student enrolled in a Class, and every Extra-Mural Student, who wishes use of Library, a *deposit* of | 1 | 0 | 0 |
| Special Readers—each year in which the privilege is granted, | 0 | 10 | 6 |

VII.—Registration Fee.

| | | | |
|---|---|---|---|
| All Candidates proceeding to Graduation after Examination who are not already members of the General Council are required by the Act 44 and 45 Vict., Ch. 40, to pay the Registration Fee, with a view to their names being enrolled in the General Council. The Fee is ... ... ... .. | 1 | 0 | 0 |

## *III.—SEPARATE FACULTIES AND CLASSES.*

The University Classes will meet as follows, daily, unless otherwise specified :—

### WINTER SESSION 1901-2.

### *I.—ARTS.*

### THURSDAY, 17TH OCTOBER, 1901.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Latin, Middle,* | 11 a.m., | £3 3 | PROF. RAMSAY. |
| ——— *Senior,* | 8 a.m. or 9 a.m. and 1 p.m., | 3 3 | |
| ——— *Private or Honours,* | 1 p.m., | 3 3[1] | |
| ——— *Prose,* | 1 p.m., Wed. or 11 a.m., Thurs., | 1 1 | |
| *Greek, Middle,* | 10 a.m., | 3 3 | PROF. PHILLIMORE. |
| ——— *Senior,* | 8 a.m., | 3 3 | |
| ——— *Honours,* | 12 noon, | 3 3[1] | |
| ——— *Prose,* | 12 noon, once weekly, | 1 1 | |
| *English,* | 4.30 p.m., | 3 3[1] | PROF. RALEIGH. |
| ———*Honours,* | 12 noon, | 3 3 | |
| *French,* | 11 a.m., | 3 3 | M. Charles Martin. |
| ——— *Honours,* | 12 noon, Tues., Fri., and alternate Wed., | 3 3 | |
| *German,* | 10 a.m., | 3 3 | Mr. George P. Thistlethwaite. |
| ——— *Honours,* | 12.15 p.m. Mon., Thurs., and alternate Wed., | 3 3 | |
| *Hebrew, Junior,* | 10 a.m., | 3 3 | PROF. ROBERTSON. |
| ———*Senior,* | 9 a.m., | 3 3 | |
| *Arabic or Syriac,* | (see p. 127), | 2 2[4] | |
| *Logic and Metaphysics,* | 9 a.m. | 3 3 | PROF. ADAMSON. |
| ——— *Honours,* | 12 noon (see p. 75), | 3 3 | |
| *Moral Philosophy,* | 8 a.m., | 3 3 | PROF. JONES. |
| ——— *Honours,* | 1 p.m., | 3 3 | |
| *Political Economy,* | 2 p.m., | 3 3 | PROF. SMART. |
| ———*Honours,* | 3 p.m., | 3 3 | |
| *Education* (*Theory, History, and Art of*), | 3.30 p.m., | 3 3 | Mr. John Adams. |
| *Philosophy of Law* (see p. 119), | 4.30 p.m., Mon., Thurs., and alternate Wed., | 3 3 | Mr. W. G. Miller. |
| *Mathematics,* | 9 a.m., or 12 noon | 3 3 | PROF. JACK. |
| ——— *Honours* (*Intermed.*), | 9 a.m., or 10 a.m., | 3 3 | |
| ——— *Honours* (*Advanced*), | 11 a.m., Mon., Wed., Fri., | 3 3 | |
| *Natural Philosophy,* | 9 a.m., | 4 4[2] | PROF. GRAY. |
| ——— *Honours,* | 12 noon, Mon., Wed., Fri., | 4 4[2,3] | |
| *Physical Laboratory,* | 10 a.m. to 4 p.m., | 6 6 | |
| ——— (*Half Session*), | | 3 3 | |

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[1] Fee for a Second or subsequent Session, £2 2s.

[2] Fee for a Second or subsequent Session, £3 3s.

[3] Fee for Honours Course following upon Ordinary Class, £3 3s.

[4] For students who are attending, or who have attended, the Hebrew Class, the fee is £1 1s.

| *Classes.* | *Hours.* | *Class Fee.* | | |
|---|---|---|---|---|
| *Astronomy, First,* | 3 p.m., Mon., Wed., and alternate Fri., | £2 | 2 | PROF. BECKER. |
| ——— *Second,* | 3 p.m., Tues., Th., and alternate Fri., | 2 | 2 | |
| ——— *First and Second in same Session,* | | 3 | 3 | |
| *Chemistry,* | 10 a.m., | 3 | 3[1] | PROF. FERGUSON. |
| *Chemical Laboratory,* | 10 a.m. to 4 p.m., | 10 | 10 | |
| ——— *(Half Session),* | | 5 | 5 | |
| *Zoology,* | 9 a.m., | 3 | 3[1] | PROF. YOUNG. |
| *Zoological Laboratory,* | 10 a.m. to 1 p.m., | 3 | 3[1] | |
| *Botany, Advanced,* | (see p. 92), | 3 | 3 | PROF. BOWER. |
| *Botanical Laboratory, Advanced* (Jan.), | (see p. 92), | 3 | 3 | |
| *Botany* (in Summer), | | | | |
| *History,* | 10 a.m., | 3 | 3 | PROF. MEDLEY. |
| ——— *Honours,* | 11 a.m., Mon., Wed., Fri., | 3 | 3 | |
| *Constitutional Law and History,* | 4.30 p.m., | 3 | 3 | Dr. W. S. M'Kechnie. |
| ——— *Honours,* | 1 p.m., Mon., Wed., Fri., | 3 | 3 | |
| *Roman Law,* | 5.30 p.m., | 4 | 4 | Mr. J. M. Irvine. |
| *History of Civil Law (Half Course),* | 5.30 p.m. (see p. 117), | 2 | 2 | |

## II.—SCIENCE.

THURSDAY, 17TH OCTOBER, 1901.

| *Classes.* | *Hours.* | *Class Fee.* | | |
|---|---|---|---|---|
| *Mathematics,* | 9 a.m. or 12 noon, | £4 | 4 | PROF. JACK. |
| ——— *Honours (Intermediate),* | 10 a.m., | 3 | 3 | |
| ——— *Honours (Advanced),* | 11 a.m., Mon., Wed., Fri., | 3 | 3 | |
| *Natural Philosophy,* | 9 a.m., | 4 | 4 | PROF. GRAY. |
| ——— *Honours,* | 12 noon, Mon., Wed., Fr., | 4 | 4 | |
| ——— *Dynamics, etc.,* | 12 noon, Mon., Tu., Th., | 4 | 4 | |
| *Physical Laboratory,* | 10 a.m. to 4 p.m., | 6 | 6 | |
| ——— *(Half Session),* | | 3 | 3 | |
| *Electricity,* | 12 noon, Wed. and Fri., | 3 | 3 | Dr. Walter Stewart. |
| *stronomy, First,* | 3 p.m., Mon., Wed., and alternate Fri., | 2 | 2 | PROF. BECKER. |
| ——— *Second,* | 3 p.m., Tues., Th., and alternate Fri., | 2 | 2 | |
| ——— *First and Second in same Session,* | | 3 | 3 | |
| *hemistry,* | 10 a.m., | 3 | 3[1] | PROF. FERGUSON. |
| *hemical Laboratory,* | 10 a.m. to 4 p.m., | 10 | 10 | |
| ——— *(Half Session),* | | 5 | 5 | |
| *Metallurgical Chemistry,* | | 4 | 4 | Dr. W. C. Anderson. |
| *natomy, Junior,* | 1 p.m., | 3 | 3[4] | PROF. CLELAND and Demonstrators. |
| ——— *Senior,* | 11 a.m., | 3 | 3[4] | |
| *ractical Anatomy,* | 9 a.m. to 4.45 p.m., | 3 | 3[4] | |

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[1] Fee for a Second or subsequent Session, £2 2s.

[2] Fee for a Second or subsequent Session, £1 1s.

[3] Fee for Honours Course following upon Ordinary Class, £1 1s.

[4] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Physiology*, | 12 noon, | £3 3[1] | Prof. M‘Kendrick and Muirhead Demonstrator. |
| *Practical Physiology* (in Summer). | | | |
| ——— *Advanced* | (see p. 98), | 3 3 | |
| *Physiological Laboratory*, | 10 a.m. to 4 p.m., | 10 10 | |
| ——— (*Half Session*), | | 5 5 | |
| *Natural History*— | | | |
| *Zoology* (Oct.), | 9 a.m., | 3 3[1] | Prof. Young. |
| *Geology and Mineralogy* (Jan.), | 5.30 p.m., | 3 3[1] | |
| *Zoological Laboratory*, | 10 a.m. to 1 p.m., | 3 3[1] | |
| *Botany, Advanced*, | (see p. 92), | 3 3 | Prof. Bower. |
| *Botanical Laboratory, Advanced* (Jan.), | (see p. 92), | 3 3 | |
| *Engineering, Class I.*, | 8 a.m., Mon., Wed., Fri., | 2 2 | Prof. Barr. |
| ——— *II.*, | (not in 1901-2), | 2 2 | |
| ——— *III.*, | 8 a.m., Tues., Thurs., and Sat., | 2 2 | |
| ——— *IV.*, | 9 a.m. daily, ex. Sat., | 3 3[1] | |
| *Engineering Drawing, etc.*, | 9 a.m. to 5 p.m. daily, except Sat., | 3 3[2] | |
| *Engineering Laboratory*, | 9 a.m. to 5 p.m., | 6 6 | |
| ——— (*Second Session*), | | 3 3 | |
| *Engineering Laboratory, Mechanical or Electrical*, | | 3 3 | |
| *Electrical Engineering*, | 11 a.m. Mon. Wed. and Fri., | 2 2 | Mr. J. D. Cormack. |
| *Naval Architecture and Marine Engineering, Junior*, | 12 noon, Mon., Wed., and Fri., | 3 3 | Prof. Biles. |
| ——— *Senior*, | 11 a.m., Mon., Tu., & Th., | 3 3 | |
| ——— *Practical, Junior*, | 2 to 5 p.m., Tu., Wed., Th., and Fri., | 3 3 | |
| ——— *Senior*, | 2 to 5 p.m., Tu., Wed., Th., and Fri., | 3 3 | |

## *III.—MEDICINE.*

### THURSDAY, 17TH OCTOBER, 1901.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Natural History, Zoology*, | 9 a.m., | £3 3[1] | Prof. Young. |
| *Zoological Laboratory*, | 10 a.m. to 1 p.m., | 3 3[1] | |
| *Chemistry*, | 10 a.m., | 3 3[1] | Prof. Ferguson. |
| *Chemical Laboratory*, | 10 a.m. to 4 p.m., | 10 10 | |
| ——— (*Half Session*), | | 5 5 | |
| *Anatomy, Junior*, | 1 p.m., | 3 3[1] | Prof. Cleland and Demonstrators. |
| ——— *Senior*, | 11 a.m., | 3 3[1] | |
| *Practical Anatomy*, | 9 a.m. to 4.45 p.m., | 3 3[3] | |
| *Physiology*, | 12 noon, | 3 3[1] | Prof. M‘Kendrick and Muirhead Demonstrator. |
| *Physiological Laboratory*, | 10 a.m. to 4 p.m., | 10 10 | |
| ——— (*Half Session*), | | 5 5 | |

[1] Fee for a Second or subsequent Session, £2 2s.

[2] Fee for a Third or subsequent Session, £2 2s.

[3] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

| *Classes.* | *Hours.* | *Class Fees.* | | |
|---|---|---|---|---|
| ***Materia Medica and Therap.,*** | 1 p.m., | £3 | 3 | PROF. STOCKMAN. |
| ***Pathology,*** *Systematic,* | 3 p.m., | 3 | 3 | PROF. MUIR. |
| ——— *Demonstrations only,* | | 1 | 1 | |
| *Surgery,* | 12 noon, | 3 | 3 | PROF. MACEWEN. |
| *Midwifery,* | 2 p.m., | 3 | 3 | PROF. M. CAMERON. |
| *Practice of Medicine,* | 11 a.m., | 3 | 3 | PROF. ANDERSON. |
| ***Clinical Medicine,*** | 9 a.m., | (see p. 64) | | PROF. GEMMELL and PROF. ANDERSON. |
| *Clinical Surgery,* | 9 a.m., | (see p. 64) | | PROF. SIR H. C. CAMERON and PROF. MACEWEN. |
| ***Public Health Laboratory,*** | (see p. 101), | 12 | 12 | PROFESSOR GLAISTER and Assistant. |
| ——— *(Half Session),* | | 6 | 6 | |
| ***Ear,*** 4 p.m., Mon. | (see p. 108), | 1 | 1 | Dr. Thomas Barr. |
| *Throat and Nose,* | 4 p.m., Th. (University), 4 p.m., Tues. or Fri. (Western Infirmary), | 1 | 1 | J. Walker Downie, M.B. |

## *IV.—LAW.*

### THURSDAY, 17TH OCTOBER, 1901.

| *Classes.* | *Hours.* | *Class Fees.* | | |
|---|---|---|---|---|
| ***Scots Law,*** | 8 a.m., | £4 | 4 | PROF. MOODY STUART. |
| ***Civil Law,*** | 5.30 p.m., | 4 | 4 | Mr. J. M. Irvine. |
| *Conveyancing,* | 8 a.m., | 4 | 4 | PROF. MOIR. |
| *Constitutional Law and* ***History,*** | 4.30 p.m., | 4 | 4[1] | Dr. W. S. M'Kechnie. |
| ——— *(Half Course),* | | 3 | 3 | |
| ***Mercantile Law,*** | 5.30 p.m., | 4 | 4 | Mr. William Shaw. |
| ——— *(Half Course),* | | 3 | 3 | |
| *Public International Law,* | 5.30 p.m., Mon., Tu., and altern. Wed., | 3 | 3 | Mr. W. G. Miller. |
| *Jurisprudence, General or Comparative,* | 5.30 p.m., Mon., Th., and altern. Wed., | 3 | 3 | |
| ***International Private Law*** | (in Summer), | | | |
| *Political Economy,* | 2 p.m., | 3 | 3 | PROF. SMART. |
| ***Forensic Medicine,*** | 9 a.m. (Jan.), | 3 | 3 | PROF. GLAISTER. |

## *V.—THEOLOGY.*

### THURSDAY, 17TH OCTOBER, 1901.

| *Classes.* | *Hours.* | *Class Fees.* | | |
|---|---|---|---|---|
| ***Divinity, Senior,*** | 11 a.m., | £3 | 3 | PROF. HASTIE. |
| ——— ***Junior,*** | 12 noon, | 3 | 3 | |
| *Hebrew, Junior,* | 10 a.m., | 3 | 3 | PROF. ROBERTSON. |
| ———***Senior,*** | 9 a.m. daily, and 12 noon, Tu. and Th., | 3 | 3 | |
| *Arabic or Syriac,* | (see p. 127), | 2 | 2 | |
| ***Ecclesiastical History, Junior,*** | 11 a.m., | 3 | 3 | PROF. COOPER. |
| ———***Senior,*** | 12 noon, | 3 | 3 | |
| *Biblical Criticism,* | 10 a.m., | 3 | 3 | PROF. STEWART. |
| ***New Testament Greek,*** | 9 a.m., Mon., Wed., Fri., | 2 | 2 | |

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[1] Fee for a Second or Subsequent Session, £2 2s.

[2] For students who are attending, or have attended, the Hebrew Class, the Fee is £1 1s.

## SUMMER SESSION 1902.

### *I.—ARTS.*

WEDNESDAY, 23RD APRIL, 1902.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Physical Laboratory,* | 10 a.m. to 4 p.m., | £4 4 | Prof. Gray. |
| *Chemical Laboratory,* | 10 a.m. to 4 p.m., | 5 5 | Prof. Ferguson. |
| *Practical Zoology,* | 10 a.m. to 1 p.m., | 3 3[1] | Prof. Young. |
| *Botany,* | 8 a.m. (see p. 92), | 3 3[1] | Prof. Bower. |
| *Botanical Laboratory,* | 9 a.m. to 4 p.m., | 3 3[1] | |
| *Latin,* | 11 a.m., | 2 2 | [2] Mr. W. W. M'Kechnie. |
| *Greek,* | 10 a.m., | 2 2 | [2] Mr. G. Macdonald, |
| *Mathematics,* | 9 a.m., | 2 2 | [2] Dr. H. S. Carslaw.<br>[2] Mr. R. J. T. Bell. |
| *Hebrew,* | 9 a.m., | 2 2 | Prof. Robertson and Mr. T. H. Weir. |
| *Political Philosophy,* | | 2 2 | Mr R. A. Duff. |

### *II.—SCIENCE.*

WEDNESDAY, 23RD APRIL, 1902.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Practical Zoology,* | 10 a.m. to 1 p.m., | £3 3[1] | Prof. Young. |
| *Botany,* | 8 a.m. (see p. 92), | 3 3[1] | Prof. Bower. |
| *Botanical Laboratory,* | 9 a.m. to 4 p.m., | 3 3[1] | |
| *Physical Laboratory,* | 10 a.m. to 4 p.m., | 4 4 | Prof. Gray. |
| *Chemical Laboratory,* | 10 a.m. to 4 p.m., | 5 5 | Prof. Ferguson. |
| *Chemistry, Higher,* | | 3 3 | |
| *Metallurgical Chemistry* | | 1 1 | Dr. W. C. Anderson. |
| *Practical Anatomy,* | 8 a.m. to 3 p.m., | 2 2[3] | Prof. Cleland and Demonstrators. |
| *Practical Physiology,* | 12 noon, | 3 3[1] | Prof. M'Kendrick and Muirhead Demonstrator. |
| *Physiological Laboratory,* | 10 a.m. to 4 p.m., | 5 5 | |

### *III.—MEDICINE.*

WEDNESDAY, 23RD APRIL, 1902.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Physics,* | 11 a.m., | £3 3[1] | Prof. Gray & Arnott & Thomson Demonstrator. |
| *Botany,* | 8 a.m. (see p. 92), | 3 3[1] | Prof. Bower. |
| *Botanical Laboratory,* | 9 a.m. to 4 p.m., | 3 3[1] | |
| *Clinical Medicine,* | 9 a.m., | (see p. 64) | Prof. Gemmell and Prof. Anderson. |
| *Clinical Surgery,* | 9 a.m., | (see p. 64) | Prof. Sir H. C. Cameron and Prof. Macewen. |

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[1] Fee for a Second or subsequent Session, £2 2s.

[2] Lecturers for 1901. The Lecturers for 1902 will be appointed in March.

[3] Students who have taken two winters and two summers of Practical Anatomy, as well a the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s

| *Classes.* | *Hours.* | *Class Fees.* | | |
|---|---|---|---|---|
| *Practical Chemistry,* . . | 9 to 11 a.m., . . | £3 | 3[1] | Prof. Ferguson. |
| *Chemical Laboratory,* . . | 10 a.m. to 4 p.m., . | 5 | 5 | |
| *Practical Anatomy,* . . | 8 a.m. to 3 p.m., . | 2 | 2[2] | Prof. Cleland and Demonstrators. |
| *Embryology,* . . . | 11 a.m. (see p. 96), | 2 | 2 | Dr. J. F. Gemmill. |
| *Embryological Laboratory,* . . . | 9 a.m. to 4 p.m. (see p. 96), | 3 | 3 | |
| *Practical Anatomy and Embryology,* if taken together, . . . . . . . | | 3 | 3 | |
| *Practical Zoology,* . . | 10 a.m. to 1 p.m., . | 3 | 3[1] | Prof. Young. |
| *Practical Pharmacy,* . | 12 noon, . . . . | 3 | 3[1] | Prof. Stockman. |
| *Practical Physiology,*[4] | 12 noon (see p. 97), . | 3 | 3[1] | Prof. M'Kendrick and Muirhead Demonstrator. |
| *Physiological Laboratory,* | 10 a.m. to 4 p.m., . | 5 | 5 | |
| *Medical Jurisprudence and Public Health,* . . | 11 a.m., . . | 3 | 3[1] | Prof. Glaister. |
| *Public Health Laboratory,* | (see p. 101), . . | 6 | 6 | |
| *Practical Pathology,*[4] . | 3 p.m. (see p. 100), . | 3 | 3[1] | Prof. Muir. |
| *Operative Surgery,* | 12 noon, with practical work at other hours as may be arranged, . . . | 3 | 3[1] | Prof. Macewen. |
| *Diseases of Women,* . | 2 p.m., Tu., Th., Fri., | 2 | 2 | Prof. M. Cameron. |
| *Insanity,* . . | 12 noon Wed. (University),<br>10 a.m. Sat. (Gartnavel), | 2 | 2 | Dr. Yellowlees. |
| *Ear,* . . . . | 4 p.m., Mon. (see p. 108), | 1 | 1 | Dr. Thomas Barr. |
| *Throat and Nose,* . | 4 p.m., Th. (University), .<br>4 p.m., Tues. or Friday. (Western Infirmary), . | 1 | 1 | J. Walker Downie, M.B. |

## *IV.—LAW.*

### Wednesday, 23rd April, 1902.

| *Class.* | *Hour.* | *Class Fee.* | | |
|---|---|---|---|---|
| *International Private Law,* | 5.30 p.m., . | £3 | 3 | Mr. W. G. Miller. |

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[1] Fee for a Second or subsequent Session, [illegible]

[2] Instead of this Practical Course in Summer, Medical Students may take a three months' course of Laboratory Instruction in Winter.

[3] Students who have taken two Winter and two Summer Courses of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

[4] After first Lecture, the Class will meet in divisions.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery:—

Western Infirmary.—This Hospital contains 416 beds for medical and surgical patients, including Wards for Skin Diseases, and one for diseases peculiar to females. *Physicians*—Prof. T. M'Call Anderson, M.D.; James Finlayson, M.D., LL.D.; Samson Gemmell, M.D.; Prof. Ralph Stockman, M.D. *Honorary Consulting Physicians*—Gavin P. Tennent, M.D.; Sir William

T. Gairdner, K.C.B., M.D., LL.D., F.R.S. *Physicians for Diseases of Women*—Professor Murdoch Cameron, M.D.; W. L. Reid, M.D. *Assistant Physicians*—John Alexander, M.D.; William G. Dun, M.D.; R. S. Thomson, M.D.; Geo. Dickson, M.D. *Surgeons*—A. Patterson, M.D.; Professor Sir Hector C. Cameron, M.D.; Professor William Macewen, M.D., LL.D., F.R.S.; J. C. Renton, M.D.; George T. Beatson, M.D. *Honorary Consulting Surgeon*—George Buchanan, M.D., LL.D, *Honorary Consulting Ophthalmic Surgeon*—T. Reid, M.D., LL.D. *Assistant Surgeons*—T. K. Dalziel, M.B.; James H. Nicoll, M.B.; Duncan Macartney, M.D.; Robert Kennedy, M.A., D.Sc., M.D.; Alfred A. Young, M.A., M.B. *Dispensary Physicians*—R. B. Ness, M.A., M.B.; William MacLennan, M.B.; William R. Jack, B.Sc., M.D.; Henry E. Jones, M.B. Hugh Galt, M.B.; James Carslaw, M.A., M.B., C.M. *Extra Dispensary Physicians*—John M. Cowan, B.A., M.B., B.C; Alfred Webster, M.D.; John S. M'Kendrick, M.D. *Dispensary Physicians for Diseases of Women*—Robert Kirk, M.D.; J. M. Munro Kerr, M.B.; E. H. Lawrence Oliphant, M.D. *Dispensary Surgeons*—George Burnside Buchanan, B.A. (Cantab.), M.B.; John Morton, M.B.; G. H. Edington, M.D. *Extra Dispensary Surgeons*—Farquhar Macrae, M.B., C.M.; Alexander MacLennan, M.B., C.M. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat and Nose*—J. Walker Downie, M.B. *Surgeon Dentist*—W. D. Woodburn, L.D.S. *Pathologist*—Professor Robert Muir, M.D. *Assistant Pathologist*—A. R. Ferguson, M.B. *Vaccinator*—John W. Nicol, M.B. *Medical Superintendent*—Donald J. Mackintosh, M.B. *Lady Superintendent*—Miss E. C. Shannon. *Secretary*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. Vaccination—Mondays and Thursdays at 12 noon. The station is recognized by the Local Government Board. Fee, £1 1s. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. That every student paying at the commencement of his First Year a Fee of £10 10s., will be entitled to admission to the Infirmary, and also to attend Courses of Clinical Instruction during the winter and summer of the said year.

2. That every student who has thus paid £10 10s., and shall at the commencement of his Second Year pay a further Fee of £10 10s., will have the privilege of admission to the Infirmary, and to the several courses of Clinical Instruction during his lifetime.

3. That the Fee for Hospital Attendance and Clinical Instruction for Six Months only be £7 7s.

4. That the Fee for Hospital Attendance and Clinical Instruction for Three Months only be £4 4s.

5. Any student who shall have paid Fees to the amount of £21 or upwards, in the payments as stated above, shall be entitled to a Ticket, admitting him to the Infirmary, and to the Clinical Instruction during his lifetime.

6. There shall be two courses of Clinical Instruction—the one in the Winter, and the other in the Summer session.

Students who have taken the Hospital Ticket previous to 1st October, 1876, will continue at the scale of Fees then in use, but an additional payment of £10 10s. will make them perpetual students of the Hospital, and admit also to the Clinical Classes under the above rules.

Students who have completed their Clinical Course elsewhere shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a Fee of £2 2s.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

ROYAL INFIRMARY.—Hour of Visit—Surgical, 9 A.M.; Medical, 10 A.M. Clinical Lectures given by the Physicians and Surgeons. Fees for Hospital attendance and Clinical Instruction—same as in the Western Infirmary, excepting fee for six months, which is £6 6s. in the Royal Infirmary.

EYE INFIRMARY, 174 Berkeley Street and 80 Charlotte Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £1 1s.; for twelve months, £2 2s.

OPHTHALMIC INSTITUTION, 126 West Regent Street.—Hour of Visit, 2 P.M. Fee for a qualifying course, £1 1s.

INSANITY.—During the Summer Session Dr. Yellowlees gives in the University a Course of Lectures on Insanity at 12 noon on Wednesdays, and Clinical Instruction at the Glasgow

Royal Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined Course, £2 2s.

Clinical Instruction in Fevers is given at the Belvidere Hospital. Fee for a course extending over ten weeks, once a week, £1 1s.

There are also Hospitals for Diseases of the Skin and Ear.

## *FACULTIES IN THE UNIVERSITY.*

The whole classes of the University are arranged in five Faculties—Arts, Science, Medicine, Law, and Divinity.

## I.—FACULTY OF ARTS.

The Faculty of Arts comprehends four Departments of study, viz.:—A. *Language and Literature*, embracing the classes of Humanity, Greek, English, French, German, Hebrew and Semitic Languages; B. *Mental Philosophy*, comprising Logic and Metaphysics, Moral Philosophy, Political Economy, Education, Philosophy of Law; C. *Science*, including Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany; D. *History and Law*, containing History, Constitutional Law and History, Roman Law.

### *A.* LANGUAGE AND LITERATURE.

### I. HUMANITY.

The original foundation of this Professorship is not extant; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

*Professors from the year* 1706.

1706. Andrew Rosse.
1735. George Rosse.
1754. George Muirhead.
1773. Wm. Richardson, M.A.
1815. Josiah Walker, M.A.
1831. William Ramsay, M.A.
1863. GEORGE G. RAMSAY, M.A., LL.D.

The Humanity Class consists of three main divisions—*Middle*, *Senior*, and *Private* or *Honours Class*, which latter class all members of the ordinary Senior Class have the option of attending. Students not requiring a Public Certificate for the Degree or other purpose may attend as Private Students.

Private Students are students who attend the class without taking part in the class work.

In all the classes the students prepare certain work prescribed, and are examined orally every day. In the Private or Honours Class the business is conducted mainly by Lectures and Prelections delivered by the Professor. Students are also examined orally, and do *Unseens* from time to time.

### *Middle Class.*

In 1901-2 the Middle Class will meet daily from 11 A.M. to 12. The subjects read are: Ovid, Tibullus, Propertius, Virgil, Horace, Cicero, Livy, together with Latin Prose Composition—Grammar—Prosody—History and Antiquities.

*Students entering the Middle Latin Class must have a good knowledge of Latin Grammar, and be able to translate at sight simple passages from Latin into English, and both simple and compound sentences from English into Latin.* Students desiring to enter the Middle Latin Class for the first time in October, 1901, will be examined in the above subjects on Monday, 21st October, at 8 A.M., in order to test their fitness for the Class. Students failing to pass this examination may be taught separately in a Junior or Preparatory Class.

### *Senior Class.*

In 1901-2 the Senior Class will probably be taught in two divisions, one meeting daily at 8 A.M. and the other at 9 A.M. All students attending the Senior Class have the option also of attending the Private or Honours Class from 1 to 2 P.M. The subjects of study in the class at the morning hour are:—The works of Horace—Propertius—Virgil—Cicero—Sallust—Livy—Tacitus—Latin Prose Composition—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session. Latin Prose is taught in four sections. Section II., III., and IV. meet at 1 P.M. on Wednesdays. Section I. meets on Thursdays at 11 A.M.

### *Private or Honours Class, 1 p.m.*

This class is an Honours or Third-year Class, at which advanced work is read. All students who attend the 8 A.M. or 9 A.M. class attend at 1 P.M. also, unless exempted for special reasons.

One subject is read and lectured upon on Mondays and Fridays; another subject on Tuesdays and Thursdays. On Wednesdays at 1 P.M. Latin Prose is taught. Students are allowed to attend as Private Students, *i.e.* as listeners only, without doing any of the work of the class; but in that case they do not receive tickets qualifying for the Degree.

On Wednesdays special classes in Latin Prose are held, which students of the Senior Class attend. Section I. (the Honours section) meets at 11 A.M. on Thursdays.

Students wishing to do Latin Prose, for the Degree or other purposes, may attend, for Latin Prose only, in one of the special sections for that subject.

The students are examined orally every day; also on paper at intervals during the session, both in the subjects read in the class and in voluntary subjects specially prescribed. A course of five sessions embraces Lectures and Prelections on Plautus—Terence—Lucretius—Catullus—Propertius—Virgil—Persius—Juvenal—Martial—Tacitus.

In all the classes, written exercises in Latin Prose are prescribed regularly, and in the Private Class exercises in Latin or English Verse may be prescribed also.

The subjects read in the Session 1901-2 will be as follows:—

1. PRIVATE OR HONOURS CLASS, AT 1 P.M.—Martial; Tacitus, *Dialogus de Oratoribus*, and *Annals* V., VI; Catullus; Virgil, *Æn.* XI., XII.

2. SENIOR CLASS, AT 8 or 9 A.M.—Horace, *Odes*; Cicero, *Phil.* I., II., [at 9 A.M.], *Pro Cluentio* [at 8 A.M.]; Horace, *Satires* II.; Ramsay's Latin Prose Composition, Vols. I. and II., Antiquities, and Prosody.

3. MIDDLE CLASS, AT 11 A.M.—Cicero, *Catiline Orations*; Ramsay's Latin Prose Composition, Vol. I.; Selections from Ovid (Ramsay); Ramsay's Antiquities; and Howe and Leigh's *History of Rome.*

## II. GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

*Professors from the year* 1704.

1704. A. Dunlop, LL.D.
1746. James Moor, LL.D.
1774. John Young, M.A.
1821. Sir Daniel K. Sandford, M.A.
1838. Edmund L. Lushington, LL.D.
1875. R. C. Jebb, D.C.L., Litt.D., LL.D.
1889. G. G. A. Murray, M.A., LL.D.
1899. JOHN S. PHILLIMORE, M.A.

The Greek Class consists of two divisions, the Senior and the Middle. Students not requiring a Public Certificate may attend as Private Students, *i.e.* without doing the work of the class.

Students are placed in the Middle Class in accordance with the result of an examination held at the opening of the session. This examination will be held on Tuesday, 22nd October, 1901. Accurate knowledge of the Elements of Accidence and Syntax will be required. A piece of unseen translation will also be set.

Students who have sat for the University Preliminary Examination need not sit for this special examination.

All students should possess the following books:—*Ancient Atlas*; *Greek Lexicon*, Liddell & Scott (large or intermediate edition—the small edition is not sufficient); some History or Primer of Greek Literature; *Greek Grammar*, Goodwin.

Senior students are recommended to get Gow's *Companion to the School Classics*, and Seyffert's *Dictionary of Classical Antiquities, etc.*, translated by Nettleship and Sandys; or, in place of Seyffert, Smith's two small volumes, the *Classical Dictionary* and the *Dictionary of Antiquities*.

### MIDDLE CLASS ('PROVECTIORES').

The Middle Class meets at 10 A.M. on every week-day except Saturday.

The class usually reads the easier Attic authors, including Lucian. Written exercises in translation from English into Greek and from Greek into English form part of the work.

### SENIOR CLASS.

This is the ordinary qualifying class for graduation; all members of it must have passed the Preliminary Examination in Greek on the higher standard, or an equivalent examination.

The class meets at 8 A.M. every week-day except Saturday.

The class hour is chiefly occupied by the Professor's lectures, but the class is liable to be examined orally or on paper every day. The work done includes the reading of Greek Authors; Greek Prose Composition; Written Exercises in translation; Greek History, Language, Antiquities, and Literature.

All students requiring a certificate of attendance must duly perform the work of the class; but those who do not require a certificate may attend as Private Students, *i.e.* without doing the work.

### HONOURS CLASS ('SENIOR AND PRIVATE').

The Honours Class, or 'Senior and Private,' meets at 12 noon every week-day except Saturday. Members of the Senior Class are at liberty to attend; they are not recommended to attempt the work of the class except in so far as it suits their convenience.

The work is similar to that done in the Senior Class, but more advanced, greater attention being given to the History of Literature, Philology, Criticism, and Philosophy. The Honours Students receive private help from the Teaching Staff in addition to the Lectures.

### *Subjects for Session* 1901-2.

MIDDLE CLASS.—Xenophon, *Memorabilia*—Cluer (Macmillan); Arrian (Alexander's Campaign)—Inge and Macnaghten (Rivingtons); Euripides, *Cyclops*—Patterson (Alex. Gardner); Composition and Written Translation.

SENIOR CLASS.—Homer, *Odyssey*, IX., X.—Merry (Clarendon Press); Sophocles, *Ajax* (Jebb's Text), Lysias, *Select Orations*—Shuckburgh (Macmillan); Holm's *History of Greece*, Vol. II. and Vol. III., to Ch. XII., inclusive; Greek Grammar and Literature; Written Translations and Prose Composition.

HONOURS CLASS.—Sophocles, with special reference to *Œdipus Coloneus*; Aristophanes, with special reference to *Acharnians*; Herodotus VII. (For these lectures the student should have read the books beforehand.) Written Translations and Prose Composition.

## III. ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861, and is in the gift of the Crown.

### *Professors.*

1862. John Nichol, LL.D.
1889. Andrew Cecil Bradley, M.A., LL.D.
1900. WALTER A. RALEIGH, M.A.

N.B.—*Students are strongly advised to take the English Literature Class, as has hitherto been the custom, in the later part of their Course. Those who, for special reasons, desire to take it early should consult the Professor before taking out their class-tickets.*

ORDINARY CLASS.—During session 1901-2 the class will meet daily, except on Saturday, at 4.30 P.M. *During session 1902-3, and thereafter, the class will meet at* 11 A.M.

The subjects to be studied are the following:—

I. On Monday, Wednesday, and Friday, throughout the session, a continuous course will be given on the History of Elizabethan Literature, with special reference to the drama (1557-1637).

The works prescribed for study are:—

Marlowe's *Tamburlaine* and *Doctor Faustus*; Shakespeare's *Love's Labour's Lost*, *Henry IV.*, Parts I. and II., *King Lear*, *Antony and Cleopatra*, *Winter's Tale*; Jonson's *Alchemist* and *Discoveries*; Spenser's *Four Hymns*; Sidney's *Apologie for Poesie*; Raleigh's *Last Fight of the Revenge*; Bacon's *Essays*.

II. On Tuesdays and Thursdays the following subjects will be studied:—

(1) The history of the English Language.

(2) English Composition. Text books: *Composition Primer* and *Questions and Exercises on English Composition*, Nichol and M'Cormick.

(3) English Essayists, especially Cowley, Dryden, Addison, Johnson, Goldsmith, Lamb, Macaulay. Text book: *English Essays*, ed. Lobban (Warwick Library).

HONOURS CLASS.—The class meets daily at 12 noon; on Monday, Wednesday, and Friday for the study of special authors and of selected subjects connected with the history of English Literature (1350-1900); on Tuesday and Thursday for the study of Anglo-Saxon and Middle English.

DEGREE EXAMINATIONS.—The subjects for these in October, 1901, and April and October, 1902, will be found on p. 179. Students are advised to present themselves for their examination in the April or October immediately following their attendance of the Ordinary Class, as the subjects studied in class are likely to change from year to year.

## IV. FRENCH LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1895.

*Lecturers.*

1895. Alfred Mercier, L. ès L.
1898. CHARLES MARTIN, M.A. (Paris).

I. ORDINARY CLASS.—The French Ordinary Class meets daily at 11 A.M., and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class will comprise the following subjects:

A. *Literature.*—Mondays and Fridays and alternate Wednesdays.

I. Les origines du Romantisme français et le Théâtre romantique. On étudiera spécialement l'histoire de l'influence de Shakspeare en France.

Commentaire de la *Préface de Cromwell*, *Hernani*, et *Ruy Blas.*

II. Explication des œuvres suivantes: *Bérénice* de Racine, *L'Avare* de Molière, Pages choisies de *Michelet.*

III. Leçons et interrogations sur l'histoire générale de la littérature française depuis le xvii$^e$ siècle jusqu'à nos jours.

B. *Language.*—Tuesdays and Thursdays and alternate Wednesdays.

I. Translations into and from French will be corrected.

II. History of the French Language; Historical Grammar (Text-book: A. Darmesteter, *Grammaire historique de la Langue française—Syntaxe*).

III. Leçons sur l'art d'écrire, compositions françaises.

IV. Exercices pratiques de lecture et de prononciation.

C. *History.*—Conférences sur les relations politiques de la France et de la Grande-Bretagne au xix$^e$ siècle.

Students who take French for purposes of graduation must attend both classes; but students who do not intend to graduate may take the Language class alone or the Literature class alone. The fee for one class alone is £2 2s.

II. HONOURS CLASS.—This Class will meet on Tuesdays, Fridays, and alternate Wednesdays, at noon. Fifty Lectures in French.

I. Reading and translation, with philological commentaries, of old French texts. Text-book: Gaston Paris, *Extraits de la Chanson de Roland*; and Montaigne, *Les Essais* (Edition classique Jeanroy, Librairie Hachette, Paris).

II. History of the French Language; Historical Grammar (Text-Book: A. Darmesteter, *Grammaire historique de la Langue française*).

III. Les Moralistes français, de Montaigne à Rousseau; Montaigne, *Les Essais*; Pascal, *Les Pensées*, *Les Provinciales*; La Rochefoucauld, *Maximes et Réflexions morales*, La Bruyère, *Les Caractères*, Vauvenargues, *Réflexions, Caractères*: Explication de leurs œuvres.

IV. L'Epopée française au Moyen-Age; Le Cycle de Charlemagne.

V. Interrogations sur l'histoire de la littérature française aux $16^e$, $17^e$, et $19^e$, siècles.

VI. Traductions et Compositions françaises.

## V. GERMAN LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University in 1899.

### *Lecturers.*

1899. **Alexander Tille, Ph.D.**
1900. George P. Thistlethwaite.

I. ORDINARY CLASS.—The German Ordinary Class meets daily at 10 a.m. in the Conveyancing Class Room, and the course, which extends to one hundred meetings, qualifies for graduation in Arts. Students who do not intend to graduate may take either the Literature class or the Language class alone. The fee for one class is £2 2s.

A. *Language.*—Mondays, Thursdays, and alternate Wednesdays. *Mondays*—The history of the German Language, phonology, word-formation, grammar questions generally. *Thursdays*—Translation of selected parts of the following works: Lessing, *Nathan der Weise*, *Laokoon*, *Minna von Barnhelm*; Goethe, *Tasso*, *Egmont*, *Dichtung und Wahrheit*; Fulda, *Die wilde Jagd*. *Alternate Wednesdays*—German Prose; translation at sight of a comedy or novel into German. Text-books: Buchheim, *German Prose Composition* (large edition); Brandt, *Grammar of the German Language*.

B. *Literature.*—Tuesdays, Fridays, and alternate Wednesdays. *Tuesdays* and *Fridays*—Course of Lectures on Klopstock, Wieland, Lessing, Herder, Schiller, Goethe (to year 1805). *Alternate Wednesdays*—Interpretation of *Faust*, Part I. Text-book: Scherer, *History of German Literature*.

II. HONOURS CLASS.—This Class will meet on Mondays, Thursdays, and alternate Wednesdays at 12.15 p.m.

1. A course of lectures on the Literature of the Reformation and the chief classical period of German Literature. 2. Reading of selections from 16th century writers. 3. Translation of a Middle High German text, Hartmann von Aue, *Der arme*

*Heinrich* (Pfeiffer's edition, Brockhaus, Leipzig). 4. Historical Grammar. Text-books: Wright, *Middle High German Primer*; Paul, *Mittelhochdeutsche Grammatik*; Johann Fischart, *Das glückhafte Schiff*; Hans Sachs; *Volksbuch Faust*, 1587; Scherer, *History of German Literature.*

### VI. HEBREW.

(See under Faculty of Theology, p. 125.)

### VII. ARABIC.

(See under Faculty of Theology, p. 127.)

## *B.* MENTAL PHILOSOPHY.

### I. LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

*Professors from the year* 1727.

| | |
|---|---|
| 1727. John Loudon. | 1787[1]. George Jardine, M.A. |
| 1751. Adam Smith, LL.D. | 1827[2]. Robert Buchanan, LL.D. |
| 1752. James Clow. | 1864. John Veitch, LL.D. |

1895. ROBERT ADAMSON, LL.D.

The Logic Class meets daily, on five days of the week, from 9 to 10 A.M.

The Course of Lectures will include the following subjects:—

I. LOGIC.—(A) Introduction on the Province and General Problems of Logic. (B) Pure Logic, including the treatment of Fallacy. (C) Theory of Scientific Method.

II. PSYCHOLOGY.—A general account of the composition and development of Mind, with a more detailed consideration of the process of knowledge.

III. METAPHYSICS.—An introduction, historical and critical, to the general questions of Modern Philosophy. The historical reference will concern mainly the doctrines of Descartes, Locke, Berkeley, and Hume.

Students before entering the class are recommended to read some elementary work on Formal Logic, such as Jevons' *Elementary Lessons in Logic* or Fowler's *Deductive Logic.*

An advanced class is held in which lectures are given on some of the subjects prescribed for Honours in Mental Philosophy. During next session this class will meet at 12 noon, on four or five days weekly.

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[1] Mr. Jardine was assistant and successor to Mr. Clow from 2nd June, 1774.

[2] Mr. Buchanan was assistant and successor to Mr. Jardine from 1st October, 1824.

Students before entering the honours class are recommended to read (1) the sections on pre-Kantian philosophy in any history of Modern Philosophy, *e.g.* Höffding, or Falckenberg, or Erdmann (all of which have been translated into English), and (2) Some history of Greek Philosophy (period before Plato), as Zeller or Burnet or Erdmann.

## II. MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

*Professors from the year* 1727.

1727. Gerschom Carmichael.
1730. F. Hutcheson, LL.D.
1746. Thomas Craigie.
1752. Adam Smith, LL.D.
1764. Thomas Reid, D.D.
1796[1]. Archd. Arthur, M.A.
1797. James Mylne, M.A.
1839. William Fleming, D.D.
1866. Edward Caird, D.C.L., LL.D.

1894. **Henry Jones, M.A., LL.D.**

The Moral Philosophy Class meets at 8 A.M. on five days of the week.

In this class Moral Philosophy is treated both historically and systematically. In connection with the systematic part of the course lectures are given on the metaphysical and psychological implications of Morals, and in connection with the historical part the development of Morals is traced, and an account given of some of the main ethical theories of ancient and modern times.

The work of the class will further comprise the study of *Plato's Republic* (translation by Davies and Vaughan), and students are recommended to read in conjunction therewith Bosanquet's *Companion to Plato's Republic*, or Nettleship's *Philosophical Lectures and Remains*, Vol. II.

In the Higher Moral Philosophy Class the Professor will lecture on some of the subjects prescribed for the Degree with Honours. During next session this class will meet at 1 p.m.

## POLITICAL PHILOSOPHY.

*Lecturer*—**Robert A. Duff, M.A.**

The Political Philosophy Class meets three days a week during the Summer Session. It is intended to meet the requirements of students preparing for the Degree of M.A. with

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[1] Mr. Arthur was assistant and successor to Dr. Reid from 22nd May, 1780.

Honours in *Mental Philosophy*, or in *Economic Science*, and for the Examinations of the Civil Service in Political Science.

The Course of Lectures will include a discussion of the main theories as to the nature and functions of the State; a critical account of the growth of institutions; and an analysis of the moral principles underlying political rights and obligations.

Students will be expected to pursue during the Session a course of reading of prescribed portions of books dealing with the subjects treated of in the Lectures, and, in particular, to acquire accurate knowledge of Aristotle's *Politics*, Green's *Principles of Political Obligation*, and Sidgwick's *Elements of Politics*. Essays and exercises will be prescribed from time to time.

In addition to this Summer Class, Lectures will be delivered during the Winter Session in connection with the Honours Course in Moral Philosophy.

The days and hours of these Lectures will be suited to the requirements of the students who wish to attend.

## III. POLITICAL ECONOMY.

This Chair (called the Adam Smith Chair of Political Economy) was founded by Ordinance No. 149 of the Universities Commission (1889) of date 25th February, 1896, with an endowment of fifteen thousand pounds sterling, given by Mr. Andrew Stewart, merchant, Glasgow. The patronage is vested in the University Court, conjointly with one representative from time to time elected by the Merchants' House of the City of Glasgow, one representative from time to time elected by the Trades' House of the City of Glasgow, and one representative from time to time elected by the Chamber of Commerce of the City of Glasgow. The professor is a professor in the Faculties of Arts and Law.

Before the founding of the Chair, Political Economy was attached to the Chair of Moral Philosophy till 1892, when a separate lectureship was instituted by the University.

*Professor.*

1896. William Smart, M.A., D.Phil., LL.D.

The Political Economy Ordinary Class meets at 2 p.m.

The Lectures, which are partly doctrinal, partly historical, are intended to accompany the study of prescribed books. The first part of the course will deal with Demand and Consumption:

the Agents of Production—Land, Labour, Capital, and Organization: Theory of the Equilibrium of Demand and Supply; Value, or Distribution and Exchange: Trade Unions. (Text-books: Marshall, *Elements of Economics of Industry*, third edition, 1899; Smart, *The Distribution of Income*.) Thereafter Money, Credit and Banking, and International Trade will be taken up. (Text-books: Gide, *Political Economy*, Book II.; Bastable, *Theory of International Trade*.) For preparatory reading students are recommended to Gide's *Political Economy* (Isbister, London, or sixth French edition, 1898, Larose, Paris).

Honours Class. The Class meets at 3 p.m. Subjects: The Theory of the State from Aristotle to Sidgwick and Bosanquet; some notable periods in Economic History; some disputed questions in the Theory of Money; Taxation and Public Finance. Special study will be made of current economic problems as they present themselves.

Students are recommended to confine themselves for preparatory reading to mastering Marshall's *Principles of Economics*, Vol. I., Books V. and VI., fourth edition, 1898.

## IV. EDUCATION.

### THEORY, ART, AND HISTORY OF EDUCATION.

This Lectureship was instituted by the University in 1894.

*Lecturers.*

1894. David Ross, M.A., B.Sc., LL.D.
1899. John Adams, M.A., B.Sc.

The Education Class meets daily at 3.30 P.M. The course consists of one hundred lectures qualifying for graduation in Arts.

A. Theory.—Application of Logic, Psychology and Ethics to Education; child mind; temperament; suggestion; habit; will; character.

B. Art.—Communication between minds: language; illustration; graphic methods; sequence of studies; form and matter.

C. History.—Conspectus of educational systems; development of educational ideals; comparative education.

Books for class work.—Davidson's *Aristotle and the Ancient Educational Ideals*; *Herbartian Psychology applied to Education* (Isbister); Locke's *Thoughts on Education*; Herbert Spencer's *Education*; Ascham's *Scholemaster*, Book I.

## V. PHILOSOPHY OF LAW.

(See under Faculty of Law, p. 118.)

## *C.* SCIENCE.

### I. MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

*Professors from the year* 1691.

| | | | |
|---|---|---|---|
| 1691. | George Sinclair. | 1796[1]. | James Millar, M.A. |
| 1699. | Robert Sinclair, M.D. | 1832. | James Thomson, LL.D. |
| 1711. | Robert Simson, M.D. | 1849. | Hugh Blackburn, LL.D. |
| 1761. | James Williamson, D.D. | 1879. | William Jack, LL.D. |

*Ordinary Class.*

Subjects: *Euclid*, Books V., VI., and XI. 1—21, more advanced *Algebra*, and the Elements of *Transversals* and of *Analytical Geometry of the straight line and circle, Trigonometry*, including solution of triangles. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 12 to 1.

*Intermediate Honours Class.*

Subjects: *Plane Trigonometry, Analytical Conics, Differential and Elements of Integral Calculus.* There will be two divisions of the Class, one meeting from 9 to 10, and one meeting from 10 to 11, daily, except on Saturdays.

*Advanced Honours Class.*

Subjects: *Integral Calculus, Spherical Trigonometry, Geometry of Three Dimensions, Differential Equations.* The class meets at 11-12 on Mondays, Wednesdays, and Fridays.

*In the case of students who began their course before* 1*st October*, 1892, attendance on the Mathematical Classes, for not less than two Winter Sessions, one of which must be on either the Ordinary or the Intermediate Honours Class, is required for the degree of M.A., "unless the candidate at the time of his entrance to the University shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the Senior Class," in which case attendance on an Honours Class for one session is sufficient.

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[1] Mr. Millar was assistant and successor to Dr. Williamson from 26th Feb., 1789.

For the "Lorimer," the "Metcalfe," and the "Muir" Bursaries in Mathematics, see under Bursaries; and for the Cunninghame Gold Medal, see under Prizes.

## II. NATURAL PHILOSOPHY.

This Professorship was founded by the Charter of *Nova Erectio* in 1577; and the Professor was confined to the department of Natural Philosophy in 1727. The Professor is elected by the University Court, and is a member not only of the Faculty of Arts, but also, since 1893, of the Faculty of Science.

*Professors from the year* 1727.

1727. Robert Dick.
1751. Robert Dick, M.D.
1757. John Anderson, M.A.
1796. James Brown, LL.D.
1803. W. Meikleham, LL.D.
1846. Lord Kelvin, D.C.L., LL.D., F.R.S.
1899. ANDREW GRAY, LL.D., F.R.S.

*University Assistant.*

Walter Stewart, M.A., D.Sc.

*Arnott and Thomson Demonstrator.*

James W. Peck, M.A.

I. ORDINARY CLASS.—The Ordinary Natural Philosophy Class meets daily at 9 a.m. The main divisions of the course are Elementary Dynamics and Properties of Matter, Sound, Heat, Light, Magnetism and Electricity. The lectures are fully illustrated by experiments. A detailed programme of the course will be published before the beginning of the session and supplied to students on application at the Physical Laboratory.

*Tutorial Class.*—Students attending the Ordinary Class are recommended also to attend the Tutorial Class, which meets on Tuesdays and Thursdays at 11 a.m. The work done in this class consists largely of numerical and other examples dealing with the subject-matter of the Ordinary Class lectures.

II. HIGHER MATHEMATICAL CLASS.—This class meets three times a week, on Mondays, Wednesdays, and Fridays, at 12 noon, and is suitable for Honours Students and students who are proceeding to the Degree of B.Sc. in Pure Science.[1]

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[1] The Course in Natural Philosophy for the Final Examination for the Degree of B.Sc. in Pure Science consists of the Higher Mathematical Class (II.) and the Laboratory Course (B).

The work comprises the Mathematical Theories of selected special branches of Natural Philosophy. The subjects treated in next session will be Higher Dynamics, and one or more of the following: Thermodynamics, Wave Theory of Light, Theory of Sound.

III. Special Class in Dynamics, etc.—This class deals mainly with Dynamics, which will be treated in such detail. and with such reference to practical problems as may render it suitable for Students of Engineering. A knowledge of Elementary Differential and Integral Calculus only will be assumed in this class, and students who desire to join it are strongly advised to begin the study of this branch of mathematics at least in the preceding summer. Professor Perry's Calculus for Engineers will be found useful in connection with this class. The class will meet on Mondays, Tuesdays, and Thursdays at 12 noon throughout the session. Attendance upon it will qualify for the Degree of B.Sc. in Engineering Science.

IV. Electricity Pure and Applied.—This class will meet at 12 noon on Wednesdays and Fridays, during the Winter Session, if a sufficient number of students present themselves. The course is one of the options for the Degree of B.Sc. in Engineering Science.

It is very desirable that students attending this class should either be attending or have already attended a course of Practical Physics in the Physical Laboratory.

V. Physical Laboratory.—Experimental Courses will be given in the Physical Laboratory from 10 to 4 daily throughout the Winter and Summer Sessions.

*A. Ordinary Course.*—This is the qualifying course for the Science Degrees. It is suitable for ordinary students of Natural Philosophy, and is recommended to all whose arrangements will permit of their taking a laboratory course. Attendance may be made up of three months in the Winter Session together with the Summer Session. A Student may qualify for the Degree of B.Sc. in Engineering Science by attendance in the Summer Session only.

*B. Advanced Course.*—A series of advanced exercises in Heat, Light, and Electricity has been arranged, and will be carried on during the Winter Session.[1]

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[1] See note on preceding page.

A syllabus of Courses *A* and *B* may be had on application at the Laboratory; arrangements as to hours of attendance will be made at the beginning of each session.

*C. Research Work.*—Research work is carried on daily under the superintendence of the Professor, his Official Assistant, and the Arnott and Thomson Demonstrator.

Books recommended: Ordinary Class (I.).—Watson's *Text-Book of Physics* and Bottomley's *Mathematical Tables*. For reference, Thomson and Tait's *Elements of Natural Philosophy*; Gray's *Treatise on Physics*, Part I. Higher Mathematical Class (II.).—Gray's *Treatise on Physics*, Part I.; and Treatises recommended in connection with special subjects treated. Special Class in Dynamics, etc. (III.).—Gray's *Treatise on Physics*, Part I. Electricity Pure and Applied (IV.).—Gray's *Absolute Measurements in Electricity and Magnetism* (smaller treatise); Maclean's *Physical Units*. Physical Laboratory (V.).—Stewart and Gee's *Elementary Practical Physics*; Glazebrook and Shaw's *Practical Physics*; Gray's *Absolute Measurements in Electricity and Magnetism* (smaller treatise). For reference, Kohlrausch's *Physical Measurements*; Wiedemann's *Elektricitat*; Gray's *Theory and Practice of Absolute Measurements in Electricity and Magnetism*.

## PHYSICS.

The lectures of this course are designed primarily for students proceeding to the First Professional Examination in Medicine. They are delivered daily at 11 a.m. during the Summer Session in the Natural Philosophy Department, and embrace the fundamental principles of the Dynamics of Solids, Liquids, and Gases, and the rudiments of Sound, Light, Heat, Magnetism, and Electricity. A detailed programme of the subjects of the course, containing the titles of books recommended for use by students and of works which may be consulted, is given to each student at the beginning of the course.

Two written examinations are held during the session, and the Class meets for a tutorial hour weekly in which additional instruction is given by oral examination and by exercises on the previous lectures.

*For the Arnott Prize in General Physics*, see Index.

## III. ASTRONOMY.

(See under Faculty of Science, page 84.)

### IV. CHEMISTRY.

(See under Faculty of Medicine, page 93.)

### V. ZOOLOGY.

(See Natural History, under Faculty of Medicine, page 92.)

### VI. BOTANY.

(See under Faculty of Medicine, page 92.)

## *D.* HISTORY AND LAW.

### I. HISTORY.

This Chair was founded by Ordinance No. 28 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court.

*Professors.*

1894. Richard Lodge, M.A.
1899. Dudley J. Medley, M.A.

Ordinary Class.—The Class meets daily at 10 a.m., except on Saturdays. The course consists of one hundred lectures qualifying for graduation.

In session 1901-2 the Professor will lecture on the History of England and Scotland to 1880. Any recognised text-book may be taken by the student as the basis of his study. The Professor would, however, especially recommend Green, *Short History of the English People*, together with Powell and Tout, *History of England*, and Hume Brown, *History of Scotland*. Those who are taking the class with a view to Honours in Economics should add G. Townshead Warner, *Landmarks in English Industrial History* (Blackie). Before joining this class students would do well to make a preliminary study of the geography of the British Isles and Empire, and to practise themselves in the drawing of outline maps.

Honours Class.—This Class will meet on Mondays, Wednesdays, and Fridays, at 11 a.m. During the next three sessions the Professor proposes to lecture on the following periods of Foreign History:—Session 1901-2: 1648-1878, with especial reference to the period 1740-1878. Session 1902-3: 476-1272, with especial reference to the period 800-1272. Session 1903-4: 1272-1648, with especial reference to the period 1453-1648.

Students who intend to join this class with a view to Honours in History during the Session 1901-2, would do well to study the geography of continental Europe, and if possible, to acquire, some facility in reading ordinary narrative French. They are also recommended to read the following books—Bryce, *Holy Roman Empire*; Wakeman, *European History*, 1598 1715 (Rivington, Percival and Co.). For a more detailed list of books, application should be made during the vacation, either personally or by letter, to the Professor.

NOTE.—*The classes recognised as Honours Classes in the Group of* HISTORY *are the Honours Classes held by the Professor of History and by the Lecturer in Constitutional Law and History.*

### II. CONSTITUTIONAL LAW AND HISTORY.

*Lecturer.*

1894. WILLIAM S. M'KECHNIE, M.A., LL.B., D.Phil.

ORDINARY CLASS.—This class now extends to a hundred meetings, and qualifies as a full course for graduation both for the ordinary M.A. and for Honours in History. (For subjects of study, text-books, etc., see under Faculty of Law, page 118.)

HONOURS CLASS.—In the winter session of 1901-2, in the event of any candidates for Honours in History presenting themselves, a course of fifty lectures (qualifying *pro tanto* for graduation with Honours) will be given on the early Constitutional History of England till 1295. The class text-book will be Stubbs, *Select Charters*. Before joining the class students are advised to read Medley, *Constitutional History*, and the following works are suggested for the use of students before or during the session:—Stubbs, *History*; Pollock and Maitland, *History of English Law*, and Maitland, *Domesday Book*. The class meets on Mondays, Wednesdays, and Fridays at 1 p.m.

### III. ROMAN LAW.

(See under Faculty of Law, page 116.)

## II.—FACULTY OF SCIENCE.

The Faculty of Science was instituted by Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, and embraces the classes of Mathematics, Natural Philosophy, Astronomy, Chemistry, Natural History (including Geology and Zoology), Botany, Anatomy, Physiology, Civil

Engineering and Mechanics, and Naval Architecture. In this Faculty there are also classes in Electricity—Pure and Applied, Electrical Engineering, and Metallurgical Chemistry.

### I. MATHEMATICS.

(See under Faculty of Arts, page 78.)

### II. NATURAL PHILOSOPHY.

(See under Faculty of Arts, page 79.)

### III. ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown. By Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, it is now called Astronomy, and the Professor is a member of the Faculty of Science, the Chair having been transferred by the Universities Commission in 1893 from the Faculty of Arts to the newly instituted Faculty of Science.

*Professors.*

1760. Alex. Wilson, LL.D.
1784[1]. Patrick Wilson, LL.D.
1799. W. Meikleham, LL.D.
1803. James Cooper, D.D.
1836. John P. Nichol, LL.D.
1859. R. Grant, LL.D., F.R.S.
1893. Ludwig Becker, Ph.D., F.R.A.S.

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the vicinity of the University buildings.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Trustees of the Bellahouston Bequest Fund recently made the generous grant of eleven hundred pounds towards the Chair of Astronomy.

The Professor of Astronomy who is chiefly occupied in directing the operations of the Observatory delivers a Course of Lectures on Astronomy at the University during the session, and gives expositions on instruments and methods of observation at the Observatory.

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[1] Dr. P. Wilson was assistant to his father from 5th June, 1782.

### *First Class.*

Subjects: Elementary Mathematical Astronomy—The celestial sphere, description and theory of instruments, determination of latitude and time. Spherical Astronomy—Precession, Nutation, Aberration, Figure of the Earth, Deductions from Kepler's Laws.

The class meets at 3 P.M. on Mondays, Wednesdays, and every second week on Fridays. Practical Demonstrations at the Observatory.

Books recommended for general reading—Barlow and Bryan, *Elementary Mathematical Astronomy* (Univ. Corr. Coll. Tutorial Series, London); Young, *Text-book of General Astronomy*.

### *Second Class.*

Subject: Mechanics of the Heavens. A short course of lectures on the Method of Least Squares and its application to Higher Geodesy will be given towards the end of the session, which may be attended by Engineering students instead of the last lectures of this class.

The students ought to be well prepared on the subjects of the Intermediate Honours Mathematical Class.

The class meets at 3 P.M. on Tuesdays and Thursdays, and every second week on Fridays.

Either class counts as a half course for the Degree of M.A.; the first and second classes, which may be taken in one session, with practical work at the Observatory, are a full course for the Degree of B.Sc.

## IV. CHEMISTRY.

(See under Faculty of Medicine, page 93.)

### METALLURGICAL CHEMISTRY.

This Lectureship was instituted by the University in 1899.

*Lecturer.*

WILLIAM CARRICK ANDERSON, M.A., D.Sc.

Two independent courses of lectures are given in each year, the first or "*A*" Course from October till December, and the second or "*B*" Course from April till June. Each class meets three days a week.

Class "*A*." The lectures deal with the chemical properties, preparation, and uses of fuels, solid, liquid, and gaseous; the composition of slags and refractory materials, and the methods employed for extraction of the principal industrial metals with special reference to the chemical principles involved.

Class "*B.*" This course treats of the principles of thermochemistry, calorimetry, and calculations of calorific power of fuels; the preparation and properties of metallic alloys, and the influence of impurities on industrial metals.

*Practical Courses.*—The Chemical Department is equipped with gas-fired crucible and muffle furnaces, and practical instruction in assaying and general metallurgical work is given during both Winter and Summer Sessions.

## V. NATURAL HISTORY.

(See under Faculty of Medicine, page 92.)

## VI. BOTANY.

(See under Faculty of Medicine, page 92.)

## VII. ANATOMY.

(See under Faculty of Medicine, page 95.)

## VIII. PHYSIOLOGY.

(See under Faculty of Medicine, page 96.)

## IX. CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment[1] by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and more recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.[2] A lectureship on Electrical Engineering was instituted by the University Court in 1898.

*Professors.*

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|---|---|
| 1840. | Lewis D. B. Gordon, C.E. |
| 1855. | William J. Macquorn Rankine, C.E., LL.D. |
| 1873. | James Thomson, C.E., LL.D., D.Sc., F.R.S. |
| 1889. | ARCHIBALD BARR, D.Sc., M.Inst.C.E. |

The courses of the Professor of Engineering extend throughout the winter session, that is, from 17th October till 28th March. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in

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[1] The annual income of a sum of £5000.

[2] The salary for the Young Assistantship thus founded is now £126.

Engineering Drawing and Calculations, Laboratory Practice, and visits to Engineering Works and Manufactories.

These courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or Mining Engineering; but the work of the classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith.

*The courses may be altered and the Laboratory Fees may be increased when the Department removes to the new Engineering buildings.*

The arrangement of classes has hitherto been as follows:—

Four Courses of Lectures are arranged for, three of which are delivered in each session.

CLASS I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.—Mondays, Wednesdays, and Fridays at 8 A.M.—The Lectures will treat of the Origin, Preparation, Properties and Uses of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron and Steel, Brass and other Alloys, Timber, Building Stones, Cements and Concrete; and the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

CLASS II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.—This class will not be held during the present session. It is held in alternate years with Class III., on Tuesdays, Thursdays, and Saturdays at 8 A.M. Surveying with the Chain and with Angular Instruments; Telemetry; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting-out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earth Works; the Execution of Civil Engineering Works. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

CLASS III.—PRIME MOVERS AND THE MECHANICS OF MACHINERY.—Tuesdays, Thursdays, and Saturdays at 8 A.M. —The Lectures treat of the Sources of Energy; Fuels; the Theory of Steam and Gas Engines; the structural details of Boilers and Engines; the Mechanics of Machinery; the Elements of Machine Design; the Transmission of Power; and Friction and Lubrication in Machines. Attendance on this class should be preceded by attendance on Class I. in the case of students entering with no knowledge of Mechanics.

CLASS IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS. —Daily, except Saturday, at 9 A.M. The Lectures treat of the Strength and Elasticity of Materials, the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, Shafts, etc.; Hydraulics and Hydraulic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

ENGINEERING DRAWING AND DESIGN.—The drawing classroom is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the commencement of the session), and will be expected to devote extra time to the performance of work. The work of the classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing; Lectures and Practice in Design of Structures, Descriptive Geometry, Graphical Statics, and the Kinematics of machinery, and the performance of graphical work and calculations in connection with the lecture courses.

ENGINEERING LABORATORY.—The James Watt Engineering Laboratories, which are being erected and equipped at a total cost of about £40,000, will be open this session. A separate description of the Laboratories will be published. The equipment includes appliances for calorimetric tests of fuels, and for economy tests of boilers and of steam and gas engines; 100-ton and 10-ton testing machines arranged for tests in tension, compression, bending, and torsion and fitted with autographic stress and strain recorders; apparatus for experiments in the flow of water through orifices and pipes, friction and lubrication in machines.

Electrical Engineering Laboratory work is also provided for in respect to electric lighting, transmission of power, etc.

The Laboratories are open daily and the hours of attendance are arranged with the individual students.

For the purposes of Ordinance No. 23, Section IX. (see page 196), Classes I. and II., or I. and III., along with Laboratory practice, count as a whole course; Class IV., together with Laboratory practice, counts as a whole course. Candidates taking the second option under Section IX., *i.e.* candidates for the Degree of B.Sc. on the side of Naval Architecture, are required to take Class IV. together with Laboratory practice.

*Recommendation.*—It is strongly recommended that students of Engineering should, if possible, get themselves engaged, for two or three summers within the period of their attendance in the University, in engineering or architectural service, in offices, or in workshops, or on works such as railways, water works, or harbour works in progress.

*As to the Degrees of B.Sc. and D.Sc. in Engineering Science, see Index.*

*As to the Certificate of Proficiency in Engineering Science, see Index.*

*As to the Muir Bursaries, the Metcalfe Bursaries, the Dr. Strang Bursaries, the George Young Bursary, the Walker Prizes and the George Harvey Prize, and the James Watt Scholarship, in the Department of Civil Engineering and Mechanics, see Index.*

## ELECTRICAL ENGINEERING.

This Lectureship was instituted by the University Court in 1898.

*Lecturer.*

1898. JOHN DEWAR CORMACK, B.Sc., M.I.E.E.

The Lectures of this course are delivered during the winter session, on Mondays, Wednesdays, and Fridays at 11 A.M. The course is recommended to candidates for the B.Sc. Degree in Engineering Science who take the course indicated in Ordinance No. 23, Section IX., 9 (*d*).

The Lectures treat of—Units, Magnetic Properties of Iron, Magnetic Circuits, Design of Electromagnets, Electromagnetic Induction.

Dynamos and Motors—Bipolar and multipolar armatures, commutation, armature reaction, characteristics, losses, efficiencies, regulation and design.

Alternating Currents—Measurement of power, graphical methods of treatment, armatures for alternators, losses, characteristics, efficiency and design of alternators and transformers; Polyphase Currents and Plant; Systems of Distribution.

## X. NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

### *Professors.*

1883. Francis Elgar, LL.D. | 1886. Philip Jenkins.
1891. John Harvard Biles.

The courses of the Professor comprise a Junior Course of Lectures and Examinations upon Naval Architecture and Marine Engine and Boiler Design, and a Senior Course of Lectures and Examinations upon Naval Architecture and Marine Engine Design; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design. The Junior Course of Lectures and Examinations may be taken in either the first or the second year of the regular curriculum, and the classes will meet on Mondays, Wednesdays, and Fridays at 12 noon, or at any other hour that may be found convenient. The classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 A.M. to 12 noon, or at any other hour that may be found convenient.

The Junior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design is expected to be taken by students in the first year of the regular curriculum; and the classes will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any hour that may be found convenient. The classes of the Senior Course will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any other hour that may be found convenient.

*As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see Index.*

*As to the Lloyd's Register Scholarship, the Elder Bursaries, and the Kirk Memorial Prize, see Index.*

# III.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the Classes of Botany, Natural History, Physics, Chemistry, Anatomy, Embryology, Physiology, Materia Medica, Pathology, Forensic Medicine, Surgery, Clinical Surgery, Practice of Medicine, Clinical Medicine, Midwifery, Insanity, Diseases of the Eye, Diseases of the Ear, Diseases of the Throat and Nose, Diseases of the Skin, and Diseases of Children.

## ORDER OF STUDY RECOMMENDED.

*It is advantageous that the Student should commence his studies in Summer.*

*Candidates are advised not to go up for examination in Chemistry and Zoology till the Autumn before the Second Winter.*

1ST SUMMER.—Physics and Botany. Practical Zoology may also be taken.

1ST WINTER.—Chemistry, Junior Anatomy, Zoology. Practical Chemistry in Laboratory may also be taken if desired.

2ND SUMMER.—Practical Anatomy. Practical Chemistry, and also Practical Zoology, may be taken if not already attended.

2ND WINTER.—Senior Anatomy, Physiology and Practical Anatomy.

3RD SUMMER.—Practical Anatomy, Practical Physiology, Practical Pharmacy, Clinical Surgery and Hospital.

3RD WINTER.—Surgery, Materia Medica, Clinical Surgery, Hospital and Dispensary Practice.

4TH SUMMER.—Practical Pathology, Medical Jurisprudence and Public Health, Operative Surgery, Clinical Medicine and Hospital.

4TH WINTER.—Pathology, Practice of Medicine and Midwifery. Also Clinical Class and Hospital.

5TH SUMMER.—Insanity, Diseases of Women, the Skin, the Eye, the Ear, the Throat and Nose, Vaccination, Hospital, Fevers.

5TH WINTER.—Hospital, Midwifery Practice, and Specialities of Practice not previously attended to.

**A.** The subjects of the *First Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

## I. BOTANY.

This Professorship was founded in 1818. The appointment is vested in the Crown. (See p. 159, as to Botanic Garden.)

*Professors.*

| | |
|---|---|
| 1818. Robert Graham, M.D. | 1845. G. A. Walker-Arnott, LL.D. |
| 1821. Sir W. J. Hooker, LL.D. | 1868. Alexander Dickson, M.D. |
| 1841. John H. Balfour, M.D. | 1879. I. B. Balfour, M.D., D.Sc. |

1885. FREDERICK O. BOWER, Sc.D., F.R.S.

Lectures are given at the University every Tuesday, Wednesday, Thursday, Friday, and Saturday at 8 A.M., during the summer session. On Saturdays, according as the season and the weather permit, either excursions are made for the study of plants in the field, or microscopic demonstrations are given in the Laboratory.

Demonstrations are given in the Botanic Garden or at the University during the latter part of the session.

The Botanical Laboratory at the University is open daily from 9 A.M. to 4 P.M. from the end of April to the middle of July. Classes for elementary practical work in the Botanical Laboratory are formed during these months at hours, so far as practicable, to suit the convenience of students.

A course of Advanced Lectures, as well as a more extended course of Practical Instruction, designed for candidates for the Science Degree, or other more advanced students, will be given in the Laboratory during the winter session. Notice of times of meeting of these classes will be given in due course.

The University Herbarium may be consulted by students on applying to the Professor.

Students in the Botanical Class may obtain, by applying to the Professor, specimens of plants from the Botanic Garden for private study.

*For the "Dobbie Smith" Gold Medal, see under "Prizes."*

## II. NATURAL HISTORY.

This Professorship was founded by George III. in 1807. The Professor is appointed by the Crown. In 1876 the late Mrs. Honyman Gillespie of Torbanehill endowed a Lectureship in Geology, to be called the "Honyman Gillespie Lectureship," in memory of her husband, W. Honyman Gillespie, Esq. The Professor of Natural History is the present Lecturer.

*Professors.*

1807. Lockhart Muirhead, LL.D.
1829. William Couper, M.D. | 1857. Henry D. Rogers, LL.D.
1866. **John Young**, M.D.

*Honyman Gillespie Lecturer*—1876. **John Young**, M.D.

The arrangements for the ensuing year are as follows:—

1. A course of Lectures on Zoology daily at 9 A.M., beginning in October.

2. A course of Lectures on Geology will begin in January; the detailed arrangements will be announced later on.

3. A course of Laboratory Demonstrations and Lectures for senior students will be given in summer. Laboratory hours 10 A.M. till 1 P.M.

Practical Instruction in Zoology will be given in the Zoological Laboratory during the summer and early part of the winter sessions by the Professor, with the assistance of James Rankin, B.Sc., M.B., C.M.

The Professional Examinations in October, 1901, will have special reference to the *Platodes*, *Arachnida*, *Pisces*; those in March, 1902, to the *Annelida*, *Crustacea*, *Reptilia*.

*For the Millport Marine Biological Station, see p. 160.*

## III. PHYSICS.

(See under Natural Philosophy in Faculty of Arts, p. 81.)

## IV. CHEMISTRY.

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

*Lecturers.*

1747. William Cullen, M.D.
1756. Joseph Black, M.D.
1766. John Robison, LL.D.
1769. William Irvine, M.D.
1787. Thomas C. Hope, M.D.
1791. Robert Cleghorn, M.D.

*Professors.*

1818. Thomas Thomson, M.D. | 1852. Thomas Anderson, M.D.
1874. **John Ferguson**, M.A., LL.D., F.S.A.

*Assistants.*

William C. Anderson, M.A., D.Sc. | George Lean, B.Sc.
James Roberts, F.C.S.

SYSTEMATIC CHEMISTRY.—The Lectures of this course are delivered daily at 10 A.M. during the winter session. They commence with the discussion of the General Principles of Chemical Philosophy, the Non-Metallic and Metallic Elements and their compounds are then treated of, and in the latter part of the course the principles of Organic Chemistry and the more common compounds of Carbon are dealt with.

*Tutorial Classes.*—In addition to attendance at the Lectures, the students are required to attend the Tutorial Classes, each of which meets twice a week. In these classes additional instruction, by means of oral examination and written exercises, is given.

Written examinations of the whole class are held at intervals during the session.

HIGHER COURSES.—In addition to the lectures on Systematic Chemistry short courses on different branches of Applied Chemistry are given, and to meet the requirements of Ordinance No. 12, Section IX. (4) (see p. 193), a higher course will be delivered as required. It will deal with the Rare Elements, Theories of Chemistry, and the History of Chemistry.

ANALYTICAL CHEMISTRY.—The Laboratory is open daily during the winter and summer session from 10 A.M. to 4 P.M., for instruction in Chemical Analysis and the application of Chemistry to Medicine and the Industrial Arts. Each student works independently, and goes through a regular series of analytical experiments of gradually increasing difficulty, until he is capable of performing a complete analysis. The more advanced students are instructed in quantitative analysis and in the preparation of organic compounds, with a view to qualifying for the higher standard necessary for the Final Science Examination. Opportunity is also afforded for graduates and other advanced students engaging in original investigation. For particulars as to the appointment of Research Students and Fellows, see page 140.

### METALLURGICAL CHEMISTRY.

(See Faculty of Science, p. 85.)

**B.** The subjects of the *Second Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes :—

## I. ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and University jointly. A separate Professorship of Botany was established in 1818, a distinct Lectureship on that branch having existed for a considerable time previously.

*Professors.*

1720. Thomas Brisbane, M.D.
1742. Robert Hamilton, M.D.
1756. Joseph Black, M.D.
1757. Thos. Hamilton, M.D
1781. William Hamilton, M.D.
1790. James Jeffray, M.D.
1848. Allen Thomson, M.D., LL.D., F.R.S.
1877. John Cleland, M.D., LL.D., D.Sc., F.R.S.

*University Assistant.*

James F. Gemmill, M.A., M.D., C.M.

*Demonstrators.*

William K. Hutton, M.A., M.B., C.M.
Archibald N. M'Lellan, M.B., C.M.
Edgar W. Sharp, M.B., C.M.

In the Winter Session Anatomical Instruction is conducted in the following courses, viz.:—

1. Elementary Descriptive Lectures.—This class meets on five days weekly from 1 to 2 o'clock. The Lectures comprehend a full systematic description of the Bones, Joints, Muscles and Muscular Organs, and a general view of the Nervous System and Viscera.

2. Advanced Descriptive Lectures and Demonstrations.—This class meets on six days weekly from 11 to 12 o'clock, viz., on five days for Lecture, and on Saturday for Microscopical Demonstrations. The course comprehends: 1st, Demonstrations of Regional or Topographical Anatomy, including the Distribution and Relations of the Blood-Vessels and Nerves; 2nd, Histology and a Detailed Description of the Viscera, Brain and Organs of Sense.

3. Practical Anatomy or Dissections under the superintendence of the Professor and Demonstrators. The rooms

are open from 9 A.M. to 4.45 P.M. daily, except on Saturdays when they close at mid-day.

*Text-books.*—Cleland and Mackay's *Human Anatomy*; Cleland and Mackay's *Directory for Dissection.* Also, Spalteholz, *Handatlas of Human Anatomy* will be found a valuable and convenient auxiliary.

In the SUMMER SESSION the rooms for Practical Anatomy are open from 8 A.M. to 3 P.M. daily.

## EMBRYOLOGY.

A Lectureship on Embryology was instituted by the University Court in 1894, but the first Lecturer, Dr. John Yule Mackay, having resigned before the beginning of the second session, temporary arrangements were made for carrying on the work of the class in 1895 and 1896.

### *Lecturers.*

1894. John Yule Mackay, M.D.
1897. JAMES F. GEMMILL, M.A., M.D.

The class meets in the Anatomy Class-room at 11 A.M. on Mondays, Tuesdays, Thursdays, and Fridays of the summer session.

A Practical Class in Embryology is also held in the Summer Session. The course will include:—

I. Instruction to the methods of Embryological research.

II. Practical Study of:—(*a*) Maturation, fertilisation, segmentation etc. (Echinoderm material most suitable). (*b*) The development of one or more of the following types,—(1) Cartilaginous fish, (2) Amphibian, (3) Chick. (*c*) Mammalian development with reference to the foetal membranes, placenta and uterus, especially in the human subject.

III. Such advanced lectures as may from time to time be necessary in order to illustrate the bearing of any part of the practical work on Comparative Embryology. Competent workers will be given facilities for carrying out special researches.

The Laboratory will be open from 9 a.m. till 4 p.m. except on Saturdays when the hour of closing is 12 noon.

## II. PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839, under the name of Theory of Physic.

It was subsequently known as Institutes of Medicine, and is now, in accordance with Ordinance No. 31 of date 5th June, 1893, designated Physiology.

*Professors.*

1839. Andrew Buchanan, M.D.
1876. John Gray M'Kendrick, M.D., LL.D., F.R.S., F.R.S.E., F.R.C.P.E.

*Muirhead Demonstrator.*

William Brodie Brodie, M.B., C.M.

*Second Assistant.*

John H. Teacher, M.A., M.B., C.M.

### SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the winter session. They are devoted to an exposition of the main principles and facts of the Physiology of Man.

1. *General Physiology*, which includes a description of the functions of the various tissues, and of the chemical reactions which occur in the living body.

2. *Special Physiology*, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Examinations are held during the session.

### PRACTICAL PHYSIOLOGY.

During the *summer session* Practical Instruction is given in the Laboratory by the Professor, the Muirhead Demonstrator, and Assistants, to classes of not more than thirty five students in each class, at such hour or hours as may be found convenient. The hours usually selected are 8 to 9 A.M. and 12 noon to 1 P.M. daily, except Saturday. This course includes :—(1) Instruction in the use of the microscope, and in the microscopical examination of the various tissues with the aid of modern methods of hardening, staining, cutting, and mounting preparations. (2) The analysis of the principal fluids of the body, with special reference to the physiological processes by which they are produced. (3) The modes of observing and recording certain physiological phenomena. Students will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures.

### ADVANCED CLASS OF PRACTICAL PHYSIOLOGY.

This Class is intended to meet the requirements of candidates for the Degree of B.Sc. It will meet during the winter session at a suitable hour, on two or three days weekly, and the course will comprise fifty meetings. Students will be taught (*a*) the more advanced methods of Physiological Chemistry, (*b*) special methods in advanced Histology, and (*c*) the use of physiological apparatus, the experimental investigation of the properties of muscle and nerve, the physics of the circulation, and the physiology of the senses. This course is wholly practical, and is designed to supplement the instruction given in the ordinary class of Practical Physiology, and to lead the student into the higher departments of physiological science.

### *The Laboratory.*

The Laboratory is open daily from 10 A.M. to 4 P.M., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is furnished with the most modern appliances both for research and for the illustration of Lectures on Physiology.

### *Text-books.*

For the Systematic and Practical Classes—*Text-book of Physiology*, 2 vols., by Dr. M'Kendrick.

As to the Muirhead Demonstratorship of Physiology, see p. 130.

## III. MATERIA MEDICA.

A Lectureship on this branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

### *Lecturers.*

| | | | |
|---|---|---|---|
| 1766. | William Irvine, M.D. | 1788. | Robert Cleghorn, M.D. |
| 1787. | Thomas C. Hope, M.D. | 1791. | Richard Millar, M.D. |

### *Professors.*

| | | | |
|---|---|---|---|
| 1831. | Richard Millar, M.D. | 1865. | John B. Cowan, M.D. |
| 1834. | John Couper, M.D. | 1880. | Matthew Charteris, M.D. |
| 1855. | John A. Easton, M.D. | 1897. | **RALPH STOCKMAN, M.D.** |

In the courses of instruction and in the scheme of professional examinations prescribed by Ordinance No. 14, the subjects included in the province of this chair are divided into the two branches of Materia Medica and Therapeutics. In the summer course of Practical Pharmacy, which it is advisable to take before the winter course, attendance at twenty-five meetings of the class is required, and this is supplemented by demonstrations of the more important substances in the British Pharmacopoeia. Instruction is given in making up various official preparations, in prescription writing, and in dispensing. The winter course is devoted to Pharmacology and Therapeutics, the official drugs of the British Pharmacopoeia being systematically considered in relation to their actions and applications in disease. In addition, lectures are given on the therapeutical aspects of Dietetics, Mineral Waters and Baths, Climate, Electricity, Massage, etc.

*Text-books.*—The manuals on *Materia Medica and Therapeutics* by Dr. Hale White, Dr. Mitchell Bruce, Dr. Whitla, or Dr. Lauder Brunton; *Practice of Medicine*, by Dr. M Charteris; *Dictionary of Treatment*, by Dr. Whitla.

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**C.** The subjects of the *Third Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

## I. PATHOLOGY.

This Chair was founded by Ordinance No. 29 of the Universities Commission (1889) of date 5th June, 1893. The patronage is vested in seven Curators, of whom four are nominated by the University Court and three by the Directors of the Western Infirmary. By agreement with the Western Infirmary, full accommodation and facilities for teaching are provided for the University in the Pathological Institute recently erected at the Western Infirmary. By mutual arrangement the Professor is the Pathologist to the Infirmary, and the whole material of that institution is available for teaching purposes.

Before the founding of the Chair, Pathology had been taught by Dr. Joseph Coats, who was appointed Lecturer in 1890, and who also held the office of Pathologist to the Western Infirmary.

*Professors.*

1894. Joseph Coats, M.D.
1899. Robert Muir, M.A., M.D.

*First Assistant (with special reference to Bacteriology).*

Alex. R. Ferguson, M.B., C.M.

*Second Assistant.*

M. L. Taylor, M.B., Ch.B.

Two courses are held, one of Pathology in winter, and one of Practical Pathology in summer. In the work of the classes the two Assistants take part, and they conduct tutorial classes during the winter session.

The course of Pathology consists of Systematic Lectures and Demonstrations. The Lectures (Monday, Wednesday, and Thursday) are devoted to an exposition of the fundamental facts and principles of Pathology. In the Demonstrations (Tuesday and Friday) the fresh material from the Infirmary and preparations from the Museum are used as the basis for an exposition of the subjects illustrated. The projection microscope and lantern are used at the lectures and demonstrations, and special microscopic demonstrations are given from time to time.

The class of Practical Pathology meets during the summer session four days a week from 3 to 5. The course of study embraces Pathological Anatomy and Histology, and Practical Bacteriology.

The fee for each course is £3 3s. Students who have had one of the courses may attend the Demonstrations on payment of £1 1s.

The Museum of the Western Infirmary is open to all Infirmary students, and a printed catalogue is provided. The post-mortem examinations, which are conducted from 10 A.M. onwards, are also open to the students. Each student during his curriculum must attend at least twenty post-mortems, and must produce evidence that he has received instruction in the methods of post-mortem examination.

*Post-graduate or Laboratory Courses in Practical Pathology and Bacteriology* may be held in October and March. These courses are open also to students in their fifth year. Particulars may be obtained from the Professor.

*Text-books.*—*A Manual of Pathology* by Dr. Joseph Coats: *Practical Pathology* by Dr. G. Sims Woodhead; and a *Manual of Bacteriology* by Drs. Muir and Ritchie.

## II. FORENSIC MEDICINE

This Professorship was created by the Crown in 1839.

*Professors.*

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.
1898. John Glaister, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This class will meet daily from 11 to 12 during the summer session.

The Lectures on Forensic Medicine will, as far as possible, elucidate the application of every branch of Medical Science to the purposes of the law.

In the department of Public Health special attention will be given to the subjects of Air, Ventilation and Heating, Water, Food, Meteorology, Injurious Trades, Vital Statistics, Sanitary Law, Disinfection, Disposal of Sewage and Refuse, and Sanitation in general.

During the session students will have an opportunity of visiting, along with the Professor or his assistant, the most important public institutions and works in the district dealing with Disposal of Sewage and Refuse, Disinfection, Ventilation, etc.

Demonstrations, macroscopic and microscopic, will be given frequently during the session, illustrating, as far as possible, the whole range of Forensic Medicine and Public Health.

Written and oral examinations (attendance on which is compulsory) will be held at intervals.

In addition, facilities will be given for studying Practical Toxicology in the Medico-Legal Laboratory at the University.

*Text-books* (for Class of Medical Jurisprudence and Public Health). Guy and Ferrier, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*; Hofmann, *Atlas of Legal Medicine* (English edition, 1898); Glaister, *Manual of Public Health for Students, etc.*

Public Health Laboratory.—The Laboratory is under the personal supervision of Professor Glaister and his assistant, and is open at hours arranged to suit Classes, for practical instruction in the methods of analysis of air, water, soils, foods, and the detection of adulterations; and instruction in practical meteorology, sanitary appliances, and physics, in relation to public health.

*Air.*—Estimation of carbonic acid, by Pettenkofer's, Angus Smith's, and other methods; detection and examination of gaseous impurities; estimation of organic impurity by ammonia and Carnelly's process; microscopic examination of matters in suspension; estimation of humidity, dew point, and tension of vapour.

*Water.*—Qualitative and quantitative analysis; microscopical examination of sediments; physical and biological examination; comparison and estimation of value of filtering media and filters; mineral and medicinal waters.

*Sewage.*—Effects of putrification processes; analysis of raw sewage and sewage effluents.

*Soils.*—Chemical and physical examination.

*Foods.*—Analysis and detection of adulterants; microscopic examination of food-stuffs; physical, microscopical and chemical examination of milk; analysis of milk, cream, butter, cheese, and oils used as foods; microscopical examination and chemical analysis of starchy foods, sugars, tea, coffee, cocoa, pepper, etc.; examination of preserved foods and detection of their adulterations.

*Disinfectants.*—Their valuation and comparison; examination of pigments in articles of attire, wall-papers, and those used in trade.

*Bacteriology.*—Methods of investigation, cultivation, and transmission; preparation of culture media; bacteriological examination of air, water, foods, blood, earth, etc.; microphotographic processes.

*Microscopy.*—Examination of food substances; parasites—animal and vegetable; crystalline deposits; micro-organisms.

*Meteorological Instruments.*—Barometer, thermometers, different kinds; rain gauges; anemometers and manometers; hygrometers, and their different forms.

The Laboratory is furnished with all the necessary chemical apparatus, etc., required for analysis, and each student is furnished with a set of apparatus for personally doing the work.

There is a complete collection of model sanitary appliances, including traps, soil stacks, to illustrate "syphoning," etc.; soil-pipes; ventilators; meteorological instruments; and an abundant collection of drawings, diagrams, and illustrative tables.

The Laboratory also possesses a large collection of microscopic specimens illustrative of parasites—animal and vegetable, food characteristics, and bacteriology.

Visits will be made, as arranged, during the Session, to view and inspect modes of sewage disposal, and unhealthy trades, etc.

The Laboratory instruction is recognized for the Diplomas in Public Health of the Triple Scotch Colleges, of the English Colleges, and of the Universities of Cambridge and Oxford under the new regulations.

*Text-books* (for Public Health Laboratory).—Lehmann, *Methods of Practical Hygiene* (English edition), 2 vols.; Kenwood, *Public Health Laboratory Work* (second edition); Hewlett, *Manual of Bacteriology*, 1898; Muir and Ritchie, *Manual of Bacteriology*, 1897; Slater and Spitta, *Atlas of Bacteriology*, 1898.

N.B.—(*See under Faculty of Law*, p. 116.)

D. The subjects of the *Final Professional Examination* for the Degrees of Bachelor of Medicine and Bachelor of Surgery are taught in the following classes:—

## I. SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

*Professors.*

1815. John Burns, M.D.
1850. James A. Lawrie, M.D.
1860. Joseph Lister, M.B., F.R.S.
1869. Sir George H. B. Macleod, M.D., LL.D., F.R.S.E.
1892. William Macewen, M.D., LL.D., F.R.S., Hon. F.R.C.S.

The Professor delivers during winter a course consisting of systematic lectures, illustrated by diagrams, casts, and pathological preparations, and of frequent demonstrations, in many of which the electric projection microscope is used for demonstrating surgical pathological histology. There are three written examinations. The following is a general outline of the course:—Anaesthesia; wounds and their varieties; haemorrhage and its arrest; the phenomena of destruction and repair of tissues; inflammation; surgical bacteriology; infective processes and diseases dependent upon bacteria and their products; neoplasms; injuries, including fractures and dislocations; Regional Surgery.

During summer Operative Surgery is conducted daily, and consists of descriptive instruction by the Professor in the principal operations, and the performance of recognised operations by the students under supervision.

In the course of Clinical Surgery which the Professor conducts both winter and summer at the Western Infirmary, as part of the regular Clinical Instruction given to University students, practical instruction is given in the methods of clinical observation, surgical diagnosis and treatment. The Professor also takes occasion, as far as the material is available, to draw the attention of the students to the points illustrative of the principles taught in the systematic course.

## II. CLINICAL SURGERY.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

*Professors.*

1874. George Buchanan, M.A., M.D., LL.D.
1900. Sir Hector C. Cameron, M.D., C.M.

*Assistant.*

Alfred A. Young, M.A., M.B., C.M.

The Professor teaches Clinical Surgery by "Lectures and other instruction" on the cases of patients affected with injuries, diseases, etc., requiring Surgical treatment.

The class meets daily at 9 a.m., both in the summer and winter session, in the Western Infirmary—Wards xiii., and xix.; and in the Overtoun Theatre.

## III. PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and endowed by Queen Anne in the following year. It is in the gift of the Crown.

*Professors.*

1714. John Johnstoun, M.D.
1751. William Cullen, M.D.
1756. Robert Hamilton, M.D.
1757. Joseph Black, M.D.
1766. Alex. Stevenson, M.D.
1789. Thomas C. Hope, M.D.
1796. Robert Freer, M.D.
1827. Charles Badham, M.D.
1841. William Thomson, M.D.
1852. John M‘Farlane, M.D.
1862. Sir W. T. Gairdner, K.C.B., M.D., LL.D., F.R.S.
1900. Thomas M‘Call Anderson, M.D.

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard to the immensely wide range of diseases usually assigned to the physician and the general practitioner, as opposed to the surgeon and the specialist. The general principles and doctrines which are available at the bedside of the sick are each year carefully and thoroughly considered in connection with such a number and variety of illustrative instances as may be expected to leave a lasting and vivid impression of the essentials of Diagnosis, Prognosis, and Treatment, in so far as these can be advantageously delivered in the form of lectures guided by a systematic plan, conveying not only the opinions of the Professor, but also references to the general history of opinion, and the steps by which the existing knowledge of disease has been built up. Thus, a broad and sufficient basis is obtained for conveying an insight into what may now be regarded as settled medical doctrine, and also, as regards points which cannot be so considered, suggestions as to the direction in which we may reasonably look for guidance in the future. But no attempt is made to give a complete synopsis annually of the details of practice in all departments; for this, the student is of necessity referred to one or other of the current text-books.

The Professor conducts at the Western Infirmary, both in winter and in summer, part of the regular Clinical Instruction given to the Medical Students of the University. Tutorial Instruction is carried out by the University Assistant twice a week, and three written examinations are held in the course of the winter session. Medals and certificates of distinction are determined upon the basis of these examinations.

A portrait medal of Sir William T. Gairdner is awarded to the most distinguished student in the class of Practice of Medicine. The dies for this medal were presented to the University along with a Portrait of the Professor by his former students, on 28th January, 1893.

*Text books.*—One of the following is recommended for general use:—Frederick Taylor's *Manual of the Practice of Medicine*, or Osler's *Principles and Practice of Medicine*; Hilton Fagge's *Principles and Practice of Medicine*, 2 vols. (1891), is a larger work of great excellence, specially adapted for senior students. Finlayson's *Clinical Manual* is in very general use for hospital work, and Dr. Anderson's *Contributions to Clinical Medicine* may be consulted.

## IV. CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

*Professors.*

1874. Thomas M'Call Anderson, M.D.
1900. **Samson Gemmell, M.D.**

*Assistant.*

Alfred Webster, M.D.

The class meets five days a week during the winter and summer sessions, and three or four written examinations are held. On Mondays and Thursdays the Professor gives demonstrations of cases in the wards; and on Wednesdays there is a clinical lecture in the theatre on cases under observation. The clinical tutors meet the class (in sections) on Tuesdays and Fridays for instruction in the investigation of cases and in the use of instruments and apparatus. A ward visit is made by the Professor every day at the close of the regular instruction.

## V. MIDWIFERY.

This subject was originally taught as part of the course in Anatomy, but in 1790 the Faculty of the College appointed Mr. James Towers to be Lecturer in Midwifery, and in 1792 assigned him a salary out of the Walton Fund. Twenty-five years later the Chair was founded by George III., and Mr. Towers became the first Professor. The Crown is the Patron.

*Professors.*

1815. James Towers, C.M.
1820. John Towers, C.M.
1833. Robert Lee, M.D.
1834. William Cummin, M.D.
1840. John M. Pagan, M.D.
1868. William Leishman, M.D.
1894. **Murdoch Cameron, M.D.**

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this situation unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Consulting Physician.

A course of lectures on the Diseases of Women is delivered in summer.

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E. Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are required also to attend the following courses:—

### I. INSANITY.

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject, the Lecturer being Physician Superintendent of the Royal Lunatic Asylum, Gartnavel.

*Lecturer.*

1880. DAVID YELLOWLEES, M.D., LL.D.

A course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 10 A.M. on Saturdays.

*For the Mackintosh Mental Science Bursary in connection with this class see "Bursaries."*

### II. OPHTHALMOLOGY.

The practical course of instruction in Ophthalmology must consist of not less than twenty meetings, of which six may be class-room lectures, and the others shall be for clinical instruction. Such courses are available in the Glasgow Eye Infirmary (174 Berkeley Street and 80 Charlotte Street), and in the Glasgow Ophthalmic Institution (126 West Regent Street). In the Berkeley Street branch of the Eye Infirmary attendance is given daily at 1 p.m. and students may attend twice a week the lectures and the clinique of any of the three surgeons. The same rule holds in the Charlotte Street branch. At the Ophthalmic Institution lectures are delivered during the summer session every Monday at 4 p.m., and practical instruction is given on Tuesday and Friday at 2 p.m. In the case of women students lectures are delivered in the summer session by Dr. A. Maitland Ramsay, in Queen Margaret College every Tuesday and Friday at 4 p.m., and practical instruction is given at the Ophthalmic Institution every Monday and Thursday at 2 p.m.

### III. FEVERS.

The course of Clinical Instruction in Fevers must consist of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds. Such instruction is given in the City of Glasgow Fever Hospital, Belvidere. Each student must, before commencing attendance at the Hospital, obtain at the office of Mr. James D. Borthwick, Treasurer, Police Department, 285 George Street, an admission card—Fee, £1 1s.

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**F.** Candidates for the Degrees of Bachelor of Medicine and Bachelor of Surgery are also recommended to attend the following courses:—

### I. DISEASES OF THE EAR.

This Lectureship was instituted by the University Court in 1895.

*Lecturer.*

1895. Thomas Barr, M.D.

Short courses on Diseases of the Ear are conducted both in winter and summer. They are of a practical character, and arrangements are made so that each student who takes the course may, in accordance with the recommendation of the Senate under Ordinance No. 14, Section vii., 10 b, attend at least ten meetings for practical instruction. At these meetings the students are taught how to examine and treat Ear Disease, while illustrative cases are regularly demonstrated. In connection with each course a certain number of lectures are delivered in the University on Mondays at 4 p.m. The practical work is carried on at the Glasgow Ear Hospital or Western Infirmary on days and hours to suit the convenience of students. As it is not considered desirable that there should be an elaborate or complete course of systematic lectures on this subject, it is understood that a suitable book on Diseases of the Ear should be studied by the student while attending the practical course. It will be arranged that those who are desirous of pursuing the subject further may receive more advanced practical instruction in a second course.

Prizes will be awarded to the most proficient students as tested by clinical examination.

*Text-book.—Manual of Diseases of the Ear* (3rd Edition, 1901), by Thomas Barr, M.D.

## II. DISEASES OF THE THROAT AND NOSE.

This Lectureship was instituted by the University Court in 1895.

*Lecturer.*

1895. James Walker Downie, M.B., F.F.P. and S.G.

The course of instruction on Diseases of the Throat and Nose is clinical in character, and is conducted in conformity with the recommendation of the Senate under Ordinance No. 14, Section vii., Sub-section 10 e., according to which candidates for graduation in Medicine are recommended to attend a short practical course of ten meetings on this subject. To permit of the necessary sub-division of the class for purposes of practical instruction there is a winter and a summer course, each having about the same number of meetings.

At the beginning of each session, the class meets as a whole at the University on Thursdays at 4 p.m. There the methods of examining the throat and nose, and the apparatus necessary for this purpose, are described and explained: the appearance of the parts in health and as altered by diseases is described, as are also the means of treatment, etc.

The class is then divided into sections for practical instruction. These sectional meetings are held at the Western Infirmary (Throat and Nose Department)—one section on Tuesdays, another on Fridays, at 4 p.m. At these meetings each student is afforded every facility for examining the various patients for himself under the supervision of the Lecturer.

In the Lectures at the University fuller instruction than can be communicated in the presence of the patient regarding pathological conditions seen at the Infirmary is given, and these lectures are illustrated by casts, coloured and photographic diagrams, instruments, anatomical and pathological specimens. While the importance of attendance on the practical instruction at the Infirmary is urged, all members of the class are requested to attend the meetings at the University.

*Text-books.—Clinical Manual of Diseases of the Throat*, by J. Walker Downie, M.B.; *A Handbook of Diseases of the Nose*, by James B. Ball, M.D.

## III. DISEASES OF THE SKIN.

The course of instruction on Diseases of the Skin at the Hospital for Skin Diseases is of a thoroughly practical character, and is conducted by Professor M'Call Anderson during the summer session. Arrangements have been made to supply short practical courses in accordance with the recommendation of the Senate under Ordinance No. 14, Section VII., Sub-section 10.

### IV. DISEASES OF CHILDREN.

Arrangements will be made for enabling students to carry out the recommendation of the Senate, that each candidate for Degrees in Medicine should attend a short practical course on this subject.

## IV.—FACULTY OF LAW.

The Faculty of Law embraces the Chairs of Law and Conveyancing, and also the Chairs of Forensic Medicine and Political Economy. In this Faculty there are also Lectureships on Civil or Roman Law, Constitutional Law and History, Jurisprudence, Public International Law, International Private Law, and Mercantile Law.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may be stated that by the regulations of the Faculty of Advocates, every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship, as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance, such as is required for admission to examination for a Law degree, in a class of Scots Law and a class of Conveyancing, in a Scottish University, and evidence of the like attendance in a class of *(a)* Civil Law, *(b)* Philosophy of Law and International Law, Public or Private, (*c*) Constitutional Law and History in a Scottish University, or such attendance in another University or School of Law as may seem to the Dean and his Council to be equivalent thereto, and (*d*) Medical Jurisprudence, in a University, or in a School recognised as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined on (1) Civil Law, (2) Philosophy of Law and International Law, Public or Private, (3) Constitutional Law and History, (4) Medical Jurisprudence, (5) Scots Law, Civil and Criminal, including Procedure, (6) Conveyancing. Information as to the books prescribed may be obtained from the Clerk of Intrants. If, however, the intrant has obtained the degree of LL.B. from a Scottish University after examination in all the subjects above prescribed for examination in Law, and also produces evidence that he has passed an examination in Procedure, he is held qualified in General Scholarship and Law without examination or other evidence of qualification, subject to the conditions that during the year immediately before presenting his diploma to the Examiners, he shall not have been engaged in any trade, business, or profession, as above set forth, and that he shall have duly presented his petition for admission and appeared before the Examiners prior to the commencement of such year. If the intrant has obtained said degree of LL.B. after passing examinations in one or more of the said subjects he is exempt from examination in these subjects. He must pass in at least two of the subjects at one time. The regulations regarding the "Public Examination," which all intrants, whether graduates or not, must undergo, require that the intrant shall write a Thesis on a Title of the Pandects assigned to him by the Dean, and shall defend it on its being impugned. The question as to the intrant's admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, and by the Law Agents and Notaries Public Act, 1891, and relative Acts of Sederunt of the Court of Session, prescribing rules as to subjects of examination and certain conditions of admission. The former Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination.

By an Act of Sederunt, dated 18th March, 1893, which came into operation in terms of an Act of Sederunt of 19th December, 1893, on 1st January, 1895 (but by a subsequent Act of Sederunt of 29th January, 1895, is not to take effect in case of candidates whose indenture is dated on or before 18th March, 1893, until 1st March, 1896), an Act of Sederunt of 20th December, 1873, and all amending provisions in subsequent Acts of Sederunt are repealed except as to anything that has been done in pursuance thereof.[1] The Act of Sederunt of 18th March, 1893, institutes two examinations in General Knowledge, instead of the Entrance Examination and General Knowledge Examination required by the Act of Sederunt of 20th December, 1873, the first of which is to be taken before or within one year after the commencement of apprenticeship, and the second either immediately after the first examination or at any time within three years thereafter. The Act of Sederunt prescribes the subjects of these examinations and of the examination in Law. Lower or Higher Grade Leaving Certificates exempt from the first examination in General Knowledge, and Higher Grade Leaving Certificates from the second examination, Higher or Lower Certificates of the Oxford and Cambridge Schools Examination Board affording similar exemptions. Higher Standard Certificates in the Preliminary Examination for M.A. under Ordinance No. 11 exempt from both of these examinations. A Lower Standard Certificate in the Preliminary Examination for M.A. under Ordinance No. 11 exempts from the first examination in General Knowledge in any subject to which that Certificate applies, and a Higher Standard Certificate exempts similarly from the second examination in General Knowledge. Certificates entitling to exemption from the first examination must be presented to the

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[1] The provisions of these earlier Acts of Sederunt may be found in previous *Calendars*.

Clerk of the Board of Examiners of Law Agents before or within one year after the commencement of apprenticeship, and the three years within which the second examination must be taken are reckoned as from the date of such presentation of the certificate. A candidate for admission as Law Agent is exempted from any examination in General Knowledge, if (*inter alia*) he hold a Degree of any University in the United Kingdom granted after examination. By Act of Sederunt of 12th July, 1893, a candidate does not require to undergo examination in General Knowledge if he has been admitted as apprentice under indenture, and passed the entrance examination prescribed under the Act of 20th December, 1873, prior to 18th March, 1893, and has attended classes in Arts in terms of the Act of 20th December, 1873, and has completed attendance in such classes prior to 1st November, 1895. Further, by the Act of Sederunt of 18th March, 1893, a candidate who holds the degree of LL.B. or B.L. of any Scottish University is exempted from any examination in Law, excepting only on Forms of Process, Civil and Criminal. Candidates who have passed the Entrance Examination under the previously existing rules are exempt from the first examination under this Act of Sederunt, and candidates who have passed the General Knowledge Examination, prescribed by the Act of Sederunt of 20th December, 1873, before 1st January, 1894, are exempted from further examination in General Knowledge, and candidates who have passed the examination in Law under the said Act of Sederunt are exempt from further examination in Law.

The following alterations were made by Act of Sederunt dated 11th July, 1899: (1) The first examination in general knowledge shall be taken before the commencement of apprenticeship, and no person shall be admitted as apprentice under indenture to a Law Agent until he shall have passed the said first examination, provided that any candidate who has already entered on his apprenticeship, or who may become an apprentice before this Act comes into operation, may offer himself for such examination within one year subsequent to the commencement of his apprenticeship, and subject to all the conditions of Acts of Sederunt in force at the date hereof. (2) The second examination in general knowledge may be taken at any time after the candidate has passed the first examination. (3) A candidate who fails to pass the first or second examination may again offer himself for examination, and shall be re-examined in all the subjects, or such part thereof as the examiners may determine. It shall be in the power of the examiners to fix a time before which a candidate who has failed to pass any examination shall not present himself again for examination. (4) No candidate shall be examined in Law until he has passed the second examination in General Knowledge. (5) This Act shall come into operation upon 1st January, 1900, and thereupon all provisions of the Act of Sederunt anent the admission of Law Agents of 18th March, 1893, inconsistent herewith, shall be repealed, except as to anything that has been done in pursuance thereof.

For Regulations as to Graduation in Law, see Index.

## *LAW.*

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

*Professors.*

1714. Wm. Forbes, Advocate.
1746. Wm. Cross, Advocate.
1750. Hercules Lindsay, LL.D.
1761. John Millar, Advocate.
1801. R. Davidson, Advocate.
1842. Allan A. Maconochie, Advocate.
1855. Geo. Skene, Advocate.
1867. Robert Berry, M.A., LL.D., Advocate.
1887. Alexander Moody Stuart, LL.D., Advocate.

Scots Law.—The course extends to about 100 Lectures, embracing as full a course of Scots Law in each session as the time will permit, and including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale; Stoppage *in transitu*; Retention and Lien; Loan, Deposit; Pledge; Hiring, and the Law of Master and Servant; Law of Carriers and Affreightment; Mandate; Partnership; Bills of Exchange; Cautionary Obligations; Law of Heritage; Servitudes; Prescription as applicable to Heritage; Law of Landlord and Tenant; Succession in Heritage and Moveables, Testate and Intestate; Marriage and Divorce, and the Rights of Husband and Wife; Law of Parent and Child; Guardian and Ward; Actions and Evidence; Diligence and Bankruptcy; Criminal Law, etc.

The text-books recommended to Students are Bell's *Principles of the Law of Scotland* and Erskine's *Principles of the Law of Scotland* (late editions).

The class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary class examinations, which are conducted in writing.

Three Prizes are given by the University for proficiency in the class examinations; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

## *CONVEYANCING.*

This Chair was instituted by ordinance of the Universities Commission (1858) of date 15th June, 1861, which was approved by Her Majesty in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

### *Professors.*

1862. Anderson Kirkwood, LL.D.
1867. Sir James Roberton, LL.D.
1889. JAMES MOIR, LL.D., Member of the Faculty ot Procurators, Glasgow.

The course extends to about 100 Lectures, and during the session there are both oral and written examinations. As full a course of Conveyancing is given each session as the time permits. The subjects treated will be selected from the following list, viz.: (1) Introductory and Preliminary Lectures. (2) The Feudal and Burgage System, the constitution of Feudal and Burgage Rights, and the transmission thereof by Deeds *inter vivos*, or by Judicial Acts. (3) Heritable Securities. (4)

Leases. (5) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (6) The completion of Titles, in case of death, to Heritable and Moveable Estate.

The class meets every day, except Monday, from 8 to 9 A.M.

The text-books recommended are Duff's *Feudal Rights*, with Supplement; *Lectures on Conveyancing*, by Menzies; *Lectures on Conveyancing*, by A. M. Bell; and Craigie's *Statutes*.

Prizes are given for eminence in the class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Scots Law.

## *FORENSIC MEDICINE.*

This Professorship was created by the Crown in 1839.

### *Professors.*

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.
1898. JOHN GLAISTER, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This course, qualifying for graduation in Law (B.L. and LL.B.), will be delivered during the winter session at 9 a.m., after the Christmas vacation.

*Text-books.*—Guy and Ferrier, *Principles of Forensic Medicine*; Dixon Mann, *Manual of Medical Jurisprudence*.

(See under Faculty of Medicine, p. 101.)

## *POLITICAL ECONOMY.*

(See under Faculty of Arts, p. 76.)

## *CIVIL LAW.*

The study of Civil Law in Glasgow is coeval with the establishment of the University. In the University Annals it is recorded that, in 1460, lectures on the Civil Law were delivered in the Chapter-House of the Friars Predicators by Master William of Levenax (Lennox). After being for a considerable period in abeyance, the study of the subject was revived in 1712. In the middle of the eighteenth century the lectures were for the first time delivered in English; up to that time the prelections were in Latin. For some years during last century the lectures were once more in abeyance, but in session 1873-74 a class was again formed, and was taught in alternate sessions by the Professor of Law. In 1894 the University Court, carrying out a recommendation of the Universities Commission (1876), instituted a separate Lectureship in the subject.

### *Lecturer.*

### 1895. J. M. Irvine, LL.B., Advocate.

The course extends to eighty lectures. The first part of the course will deal with the Constitutional History of Rome and the history of the development of the law. This part is intended to serve as an introduction to the study of the special departments of the law. The latter part of the course will be devoted to a systematic exposition, in detail, of the various departments of the law, according to the order in which they are treated in Justinian's *Institutes*. The class meets four days a week during the winter session, from 5.30 to 6.30 P.M. Attendance at the class is required of all candidates for Degrees in Law (LL.B. and B.L.); it also qualifies for the Degree of M.A.

Honours in Economic Science.—The lectures in the class of Civil Law up to Christmas, together with about twelve additional lectures given after Christmas separately from the ordinary course on Civil Law, constitute a half course on the History of Civil Law qualifying for the Degree of M.A. with Honours in Economic Science.[1] The additional lectures will deal with the history of Civil Law after the time of Justinian and with the influence of the Civil Law in the development of modern law and existing institutions.

*Text-books.*—*Institutes of Justinian*; Eds., Moyle or Sandars. Reference is also frequently made to *Institutes of Gaius*; Eds., Poste or Muirhead.

*History of Civil Law.*—The text-books recommended for students taking the half course in History of Civil Law are Ortolan, *Histoire de la Législation Romaine* (English translation by Cutler); T. M. Taylor, *Constitutional History of Rome* (Lond. 1899); J. B. Bury, *History of the Later Roman Empire* (Lond. 1889).

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[1] See fifth note on p. 17[illegible].

## *CONSTITUTIONAL LAW AND HISTORY.*

This Lectureship was instituted by the University in 1878, and the class was taught in alternate years during the summer session, the course extending to forty lectures. In 1894 the University Court, to meet the requirements of the Ordinances for Graduation in Law, placed the Lectureship upon a new footing. The course was extended to eighty lectures, and the class was made a Winter Class, meeting every year. In April, 1900, arrangements were made for extending the course to a hundred meetings for Arts students, and the extended course was recognized as a full course in Arts, qualifying for graduation for the ordinary Degree of M.A., and also for the Degree of M.A. with Honours in History. Attendance on the first eighty lectures of the course is required of all candidates for the Degree of Bachelor of Laws (LL.B.). Attendance on the first fifty lectures of the course qualifies for the Degree of B.L., subject to the conditions laid down in Ordinance No. 40.

*Lecturers.*

1878. Charles S. Dickson, M.A., Advocate.
1878. Alex. Ure, LL.B., Advocate.
1889. Robert T. Younger, LL.B., Advocate.
1894. WILLIAM S. M'KECHNIE, LL.B., D.Phil.

ORDINARY CLASS.—The course will be partly historical and partly analytical. The historical lectures will trace in outline the development of the Constitution from the Anglo-Saxon migrations to the present reign. The analytical lectures will treat (1) of the safeguards of the rights of individuals, and (2) of the separate parts of the Constitution and the distribution of power in the State.

The text-books recommended are those prescribed for the M.A., B.L., and LL.B. Degrees.

The hour for the meeting of the class is 4.30 P.M.

HONOURS CLASS.—(See under Faculty of Arts, p. 83.)

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## *GENERAL OR COMPARATIVE JURISPRUDENCE.*

This Lectureship was instituted by the University in 1893, under the title Philosophy of Law. The subject was at an early date treated as an integral part of the course of Moral

Philosophy, under the name of Natural Jurisprudence. From 1878 it was treated by the Lecturer on Public Law as introductory to that subject.

*Lecturer.*

1893. William Galbraith Miller, M.A., LL.B., Advocate.

The course is given on Mondays and Thursdays during the winter session. The lectures for 1901-2 will be mainly devoted to General Jurisprudence, the Ideas of Right, Obligation, Duty, Law, Custom, Justice, etc. Lectures may be given on (1) some topic of Comparative Jurisprudence, such as the arrangement of the French, Indian, and German codes; the Land laws of different countries; or some particular crime or legal institution: or (2) the metaphysic of Law. The same course under the name of Philosophy of Law may in a special case be reckoned as a half course for the Degree of M.A. by candidates for honours in Economic Science (see p. 175).

The class meets at 4.30 P.M.

*Text-books.*—(See subjects for Degrees in Law.) Reference is constantly made to the ordinary text-books in the other Law Classes, and to the Statutes in ordinary collections.

## *THE LAW OF NATIONS, OR PUBLIC INTERNATIONAL LAW.*

In 1878 the University instituted a Lectureship on Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, created separate courses for International Private Law and for Jurisprudence.

*Lecturer.*

1878. William Galbraith Miller, M.A., LL.B., Advocate.

The course is given on Mondays and Thursdays during the winter session. The course for 1901-2 will be historical, dealing with the development of doctrines from the earliest times; and the growth of the modern Nation State.

Students are expected to be acquainted with the elements of the Civil Law, and to have a general acquaintance with Modern European History. *Text-book.*—Hall's *International Law.*

The class meets at 5.30 P.M.

## *INTERNATIONAL PRIVATE LAW.*

From 1878 this subject was treated as part of the course of Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, instituted a Lectureship on International Private Law.

*Lecturer.*

1894. William Galbraith Miller, M.A., LL.B., Advocate.

This course is given in the summer session. The lectures discuss the principal doctrines as developed in the decisions of the British Courts contrasted with the results of Continental Jurisprudence. The subjects comprise History, General Principles, Comity, Public Interest, Nationality and Domicil; and in alternate sessions some of the following in detail: (1) Marriage, Divorce, Guardianship, and Family Law; (2) Contract and Mercantile Law, including Bankruptcy; (3) Succession and Trust Law, Conveyancing and Heritable Rights; (4) Copyright, Trademarks, etc.; (5) Procedure and Evidence; (6) Criminal Law and Extradition, the other subjects being sketched in outline. For purposes of comparison and illustration reference is made to the collections of foreign codes, which will be found in the Library of the Faculty of Procurators. Students are expected to be familiar with the leading doctrines of the Civil Law and of Scots Law. The class meets at 5.30 p.m.

*Text-book.*—Rattigan, *Private International Law.*

## *MERCANTILE LAW.*

This Lectureship was instituted by the University in 1894.

*Lecturers.*

1894. James Mackenzie, Member of the Faculty of Procurators, Glasgow.

1900. William Shaw, Member of the Faculty of Procurators, Glasgow.

This course will extend to eighty lectures, and will embrace for the first half course the following subjects:—The Law of Contracts, including Retention, Pledge, the Factors Acts, Loan and the Law of Damages, Bankruptcy and Sequestration, Judicial Factors, Bills of Exchange, and Banking. The second half course will include the Law of Partnership, Joint Stock Companies, the Law of Carriage by Land; Maritime Law, including Affreightment, Lien, and Average; Marine, Fire, Life, and Accident Insurance, and the Law relating to Trade Marks and Patents. Attendance on the whole course may, subject to the conditions laid down in Ordinance No. 39, be reckoned as qualifying for the Degree of LL.B., and attendance on forty lectures, constituting a half course, may, subject to the conditions laid down in Ordinance No. 40, be reckoned as qualifying for the Degree of B.L. The principal subjects in the first half course have been prepared with special reference to the requirements of students intending to follow the profession of Accountants or Bankers. The class meets at 5.30 P.M.

## V.—FACULTY OF THEOLOGY

The Faculty of Theology embraces the four classes of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular sessions, or two full and regular sessions and three partial sessions; and to give at least two full sessions of regular attendance on the classes of Church History, Hebrew, and Biblical Criticism.

Each student, in order to be enrolled *for the first year* of his attendance, must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical Standards of the Church; and, *secondly*, a certificate signed by the Convener or Vice-Convener of one of the four Examining Committees appointed, under the Act of Assembly, 1872, to conduct the examination of students previous to their entering the Divinity Hall.[1] In order to be admitted to this examination he must, in accordance with the Act[2] of Assembly, 1896, produce, in addition to the certificate from the Presbytery recommending him, either (*a*) the diploma of a Master of Arts of a Scottish University, or the diploma of a Bachelor of Arts after an undergraduate course at any British or Irish University, or at any Colonial University at which the course is equivalent to that of a Scottish University, and which shall be approved by the General Assembly on a report from the Committee on the admission of ministers and the status of students of Divinity, or evidence that he has passed the examinations for, and is entitled to receive, such diploma of Master or Bachelor of Arts; or (*b*) evidence that he has passed the Preliminary Examination required of those proceeding to the Degree of Master of Arts in a Scottish University, or such examination as the University authorities recognize as equivalent thereto, and that he has attended some one of the courses required[3] for that degree, and has not only attended the classes of the course, but has duly performed the work of each of them. The subjects of examination are Greek (including the New Testament in Greek), Latin, Moral Philosophy, and Hebrew; provided always that a student who produces evidence that he has passed the examination for the Degree of Master or Bachelor of Arts in any of these subjects shall be exempted from examination in that subject.

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[1] The following are the subjects of examination for October, 1901:—LATIN—Cicero, *De Amicitia*; Virgil, *Aen. VI.* GREEK—Plato, *Republic*, Book II. *The Epistles to Timothy and Titus.* HEBREW—The Grammar—Davidson's *Hebrew Grammar*, Sections 1-30. Genesis, Chapters I. and II., with grammatical questions limited to the subject in the Grammar. MATHEMATICS—Euclid, Books I., II., and III. Algebra to Quadratic Equations. NATURAL PHILOSOPHY—Deschanel, *Physics*, Part I. LOGIC—Jevons, *Elementary Lessons in Logic.* MORAL PHILOSOPHY—Muirhead, *Elements of Ethics* (University Extension Manual). ENGLISH LITERATURE—Morley's *First Sketch*, Chapter X. (from the Commonwealth to the Revolution); Bunyan, *Pilgrim's Progress*; Milton, *Paradise Lost.* The Examining Committees meet at the respective University seats shortly before the commencement of each session, the times and places of meeting being duly announced in the July number of *Life and Work*, along with the names of the Conveners and Vice-Conveners of the respective Committees.

[2] The provisions of this Act are applicable to all students beginning their course in Arts with a view to the ministry after May, 1895, and also to such students as have already begun their course and may desire to take advantage of its provisions.

[3] Any student who has gone through a curriculum in Arts in accordance with the provisions of Ordinance No. 11, but who has not graduated, may on application obtain, at the end of his course, a certificate to that effect at the Matriculation Office on production of his Preliminary Examination Certificate and the necessary Class-tickets duly signed.

The student, in order to his enrolment *for each subsequent session* of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral character from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session.

At the close of each session every student is required to take with him to the Presbytery certificates from the several Professors, under whom he has studied, of his good conduct and proficiency.

By Act VII. of the General Assembly, 1894, it is enacted—that "Candidates for licence who have finished a regular course of study in Theology shall be examined as soon as it can conveniently be done after the close of the Divinity session by one or other of the Examining Committees constituted by Act IX., Assembly 1872. . . . The time and place of examination, with any other necessary information, shall be published in the October number of *Life and Work*. The following shall be the heads of subjects of examination:—(i.) Apologetics, including Natural Theology; (ii.) Church History; (iii.) Old Testament Introduction and Exegesis; (iv.) New Testament Introduction and Exegesis; (v.) Christian Doctrine. . . . The special subjects of examination from year to year . . . as agreed upon by the several Committees, shall be intimated in the July number of *Life and Work*. Students who have passed for the Degree of B.D., and who satisfy the Committee that they have done so, shall be exempted from examination in the subjects covered by the Degree of B.D."

Students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,[1] during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce, before being taken on trials, due evidence of such attendance.

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[1] For the purposes of the Act of Assembly, and to qualify for the competition for the Dowanhill Prizes, the following teachers are recognised:—Mr. Thomas Harrower, 282 Bath Street; Mr. William S. Vallance, 201 Sauchiehall Street; Mr. John Forsyth, 20 Rupert Street; Mr. David B. Johnstone, A.Mus., 16 Burnbank Terrace; Mr James C. Newlands, Daleville House, Braidwood; Mr William Robertson, 187 Sauchiehall Street; and Mr. Charles Aitken, Christian Institute, Bothwell Street.

By Act IX. of the General Assembly, 1895, it is enacted—"that every student before being taken on trial for licence shall produce evidence of having regularly attended two courses of the Pastoral Lectures provided by the Home Mission Committee."

Each student is required during his curriculum to deliver *six* discourses—viz., an EXEGESIS in Latin on some controverted head in Divinity, a HOMILY in English, a CRITICAL EXERCISE on some portion of the original text of the Old Testament, an EXERCISE and ADDITION on some portion of the original text of the New Testament, a LECTURE on some portion of Scripture, and a POPULAR SERMON, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced, along with class certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the Latin Exegesis shall be given in to the Professor of Divinity, and the Lecture to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

## *DIVINITY.*

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

*Professors.*

1640-50. David Dickson.
1642-61. Robert Baillie.
1653. John Young.
1669. Gilbert Burnet, D.D.
1674. David Liddell.
1682. Alexander Ross, D.D.
1688. James Wemyss, D.D.
1692. James Wodrow.
1708. John Simson.
1740. Michael Potter.
1744. William Leechman, D.D.
1761. Robert Trail, D.D.
1775. James Baillie, D.D.
1778. William Wight, D.D.
1782. Robert Findlay, D.D.
1814. Stevenson Macgill, D.D.
1840. Alexander Hill, D.D.
1862. John Caird, D.D.
1873. William Purdie Dickson, D.D., LL.D.
1895. William Hastie, D.D.

The course of Theology extends over three sessions

The class meets on five days of the week, in two divisions, the Senior at 11 A.M. and the Junior at 12 o'clock.

The subjects treated in the Lectures during the three sessions are—(1) Theology as a Science (Theological Introduction and Encyclopaedia); (2) Apologetics; (3) Philosophy of Religion; (4) The Comparative History of Religions; (5) Biblical Theology; (6) Critical History of Christian Doctrines; (7) Systematic Theology (Dogmatics and Ethics). Essays and Discourses are prescribed to the students. Examinations on the studies of the class will be held at intervals during the session.

PASTORAL TRAINING.—By a recent arrangement six Lectures on this subject will be given by a Lecturer appointed by the General Assembly.

## *HEBREW AND SEMITIC LANGUAGES.*

This Professorship was founded by Queen Anne, 1709, under the title Oriental Languages. It is now designated Hebrew and Semitic Languages, in accordance with Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court, and is a member not only of the Faculty of Divinity, but also, since 1893, of the Faculty of Arts.

*Professors.*

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|---|---|
| 1709. Charles Morthland. | 1761. Robert Trail, D.D. |
| 1745. Alexander Dunlop, M.A. | 1761. Patrick Cumin, LL.D. |
| 1751. William Rouet. | 1814. Gavin Gibb, D.D. |
| 1753. George Muirhead. | 1831. William Fleming, D.D. |
| 1755. John Anderson, M.A. | 1839. George Grey, D.D. |
| 1757. James Buchanan, M.A. | 1850. Duncan H. Weir, D.D. |

1877. James Robertson, D.D.

By Ordinance No. 11 of the Universities Commission (1889) "Hebrew" and "Arabic or Syriac" are now included among the departments of study for graduation in Arts, and "Semitic Languages" among those for graduation with Honours.

The existing regulations of the Church of Scotland require all students of Divinity to give attendance on Hebrew for two sessions. The following are the arrangements for session 1901-2:—

I.—*Junior Class* (*Hebrew*), five days in the week at 10 A.M. (1) Davidson's *Introductory Hebrew Grammar*, with the Exercises; (2) Readings from the easier books of Scripture; (3) Lectures on Hebrew Archaeology.

II.—*Senior Class* (*Hebrew*), five days in the week at 9 A.M., and Tuesdays and Thursdays at 12 noon. (1) Readings in the Hebrew Scriptures; (2) Exercises in Unpointed Text and Translations from English; (3) Study of the Syntax and the Accents; (4) Revisal and extended study of Grammar.

In each of these classes there will be daily oral examinations, weekly written exercises, and four written examinations during the session. In the Senior Class, at the 9 o'clock hour, the readings will be from the books of Judges, Ruth, Jeremiah XXVI.-LII., and Psalms LXXIII.-LXXXIX. At 12 o'clock on Tuesdays there will be prelections on selected passages and books, and on Thursdays lectures on Introduction, with particular reference to the history of the Hebrew text. All students of Divinity enrolled in the class are required to attend at both hours.

The Senior Hebrew is appointed as the qualifying class for graduation in Arts. Before attending the class for this purpose, students are required by the Ordinance No. 11, sect. IV., 3, to pass a preliminary examination in Hebrew "on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination." Students presenting themselves for this examination will be expected to know as much as is implied in the work of the Junior Hebrew Class, and will be examined in grammar, and in translation both from Hebrew into English and from English into Hebrew.

III.—A class, or classes in *Arabic*, or *Syriac*, to meet at hours that may be found most suitable, will also be formed, if students offer.

The following arrangements have been made for the study of Arabic with a view to graduation in Arts. Candidates must pass a Preliminary Examination on the principles of Grammar and Syntax, and be able to translate simple passages from Arabic into English, and from English into Arabic. Thereafter they must attend a course of not less than 100 meetings, which, however, may be taken in two half courses, the second half course being a continuation of the first.

## *ECCLESIASTICAL HISTORY.*

The Professorship of Ecclesiastical History was founded by George I., in the year 1716, but no appointment was made to the Chair till the year 1720. The Professor is appointed by the Crown.

*Professors.*

1721. William Anderson.
1752. William Rouet
1762. William Wight, D.D.
1778. Hugh M'Leod, D.D.
1807[1]. William M'Turk, D.D.
1841. Jas. Seaton Reid, D.D.
1851. Thos. T. Jackson, D.D.
1874. William Lee, D.D.
1886. Robert Herbert Story, D.D., LL.D.
1898. JAMES COOPER, D.D.

The course extends over two sessions, and embraces two series of lectures as well as oral and written examinations. The Junior and Senior Classes meet at separate hours, the Junior from 11 to 12 o'clock, the Senior from 12 to 1 o'clock.

The subjects treated in the Lectures during the two sessions will be:

I. JUNIOR DIVISION.—(1) The History of the Church Catholic from the Day of Pentecost to the Division between East and West; (2) The Acts of the Apostles. Books recommended—Kurtz, *Church History*; Moeller, *History of the Christian*

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[1] Dr. M'Turk was assistant and successor to Dr. M'Leod from 6th March, 1797.

*Church*, A.D. 1–600; Eusebius, *Ecclesiastical History* (translated by M'Giffert); Ramsay, *The Church in the Roman Empire, before A.D. 170*, and *S. Paul the Traveller and the Roman Citizen*; Pullan, *History of Early Christianity*; Hefele, *History of the Church Councils*; Du Bose, *The Ecumenical Councils*; Gibbon; The Apostolic Fathers; The Teaching of the Twelve.

II. SENIOR DIVISION.—(1) The History of the Church of Scotland; (2) The History of the Church of England; (3) Brief Courses of Lectures on the History of the Church of Ireland; (4) Important Epochs in the History of the Church on the Continent and in the East.

Books recommended—Grub, Cunningham, or Stephen, on the Ecclesiastical History of Scotland; Skene's *Celtic Scotland*; Macgregor's *Saint Columba*; John Knox, *History of the Reformation in Scotland*; Spottiswoode; Wodrow; M'Crie, *Knox*; Andrew Lang's *History of Scotland*; Bede's *Ecclesiastical History of England*; Wakeman's *History of the Church of England*; *A History of the English Church*, edited by Stephens and Hunt.

The following subjects have been prescribed for Essays to be written in the summers of 1901 and 1902: Holy Baptism in the Primitive Church (the Day of Pentecost till A.D. 300); The Influence of S. Martin of Tours; Ecclesiastical Architecture—Diocletian to Justinian; The Apologies of S. Justin Martyr; S. Athanasius and Arianism; The Mendicant Orders; Melancthon; The Ecclesiology and Ecclesiastical History of any Parish or District in Scotland in which the Student may be resident.

## *DIVINITY AND BIBLICAL CRITICISM.*

This Professorship was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861. The Professor is appointed by the Crown.

*Professors.*

1863. William P. Dickson, D.D.
1873. WILLIAM STEWART, D.D.

This class will meet on five days of the week at 10 A.M.

The course of lectures is arranged to extend over two sessions; and the class should accordingly be attended in two *consecutive* years.

The lectures in 1901-2 will treat of the principles of Textual Criticism, and of some portions of New Testament Introduction.

The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament.

Essays on subjects suggested by the work of the class are prescribed at intervals during the session, and the progress of the students is further tested by examinations, partly oral and partly written.

*Class of New Testament Greek.*—This tutorial class is intended for those who are preparing to pass the examination on the *New Testament in Greek* previous to entering the Divinity Hall, and for those who, with a view to the Exit Examination at the close of the Divinity course, desire to extend their knowledge of New Testament Greek. In the Exit Examination all students, both Bachelors of Divinity and others, are required to show proficiency in reading the New Testament in Greek, *ad aperturam.* The Class will be formed only if a sufficient number of students present themselves, and will meet on three days of the week, viz., Monday, Wednesday, and Friday at 9 A.M.

## IV.—DEMONSTRATORSHIPS, ETC.

### THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical

Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

*Demonstrators.*

1875. James Thomson Bottomley, M.A., D.Sc., F.R.S.
1899. JAMES W. PECK, M.A.

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### THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In January, 1877, the late Dr. Henry Muirhead of Longdales, Bothwell Parish, and afterwards of Cambuslang, presented to the University the sum of £2,100 and in November, 1879, a further sum of £400, to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows :—

1. That the title of the appointment be "The Muirhead Demonstrator of Physiology."

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.

3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.

4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.

5. That the incumbent will be expected to devote his entire time to the duties of the appointment.

6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

*Present Demonstrator.*

WILLIAM BRODIE BRODIE, M.B., C.M.

### THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations, drawn in terms of the Founder's will, were adopted by the Senate on 28th February, 1889:

1. The Demonstratorship shall be held for three years, and shall be open to the candidate who in the three years intervening between each appointment shall have passed the Degree of B.Sc. with Honours, or, in the event of several candidates obtaining Honours, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest; but in the event of no candidate attaining to Honours, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, provided his average of marks over all the said subjects is not less than 70 per cent., but any candidate who fails to obtain at least 70 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the character of his lectures, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be:—

(1) To deliver two courses of lectures—twenty in the winter, twenty in the summer session—(*a*) on Mineralogy and Petralogy, or (*b*) on Palaeontology, or (*c*) on Physical Geography. These lectures to be accompanied by Demonstrations on specimens selected from the Hunterian collections with the consent of the Keeper.

(2) To give Field Demonstrations of Geology and Petralogy, under the direction of the Professor of Natural History (or of Geology when that Chair shall be founded).

(3) To carry on original work in any department of Geological Science which he may select, obtaining therein such assistance by specimens as the Keeper of the Museum shall find it in his power to give.

4. These courses of lectures may be attended (*a*) by matriculated students of Geology, free; (*b*) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 1s. for each course, or such higher fee as the University Court may fix; (*c*) by any member of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

The first appointment was made in April, 1889; in the ordinary course an appointment should have been made in April, 1895, on the results of the examinations for B.Sc., held between May, 1892, and April, 1895, but there was no one eligible in terms of the regulations. An appointment would have been made in April, 1896, had an eligible candidate appeared. No appointment could be made in April, 1900.

## WALTONIAN MEDICAL LECTURESHIP.

This Lectureship was founded in 1788 by the Rev. Dr. William Walton, Rector of Upton, in the County of Huntingdon, who bequeathed to the Senate for its support the sum of £1000, increased by subsequent accumulations to £2787. The lecturer is required to take for his subject that branch of Medicine or Science connected with Medicine which may be assigned to him by the Governing Body of the University. From 1792 a salary was provided out of the Walton Fund for a lecturer on Midwifery till 1815, when the Chair of Midwifery was founded. From 1816 provision was made in like manner for the teaching of Materia Medica till a Chair in that subject was founded in 1831. Since 1831 the lectureship has been devoted to the subject of Ophthalmology, but, on the resignation of Dr. Thomas Reid in the end of 1900, the University Court, taking into account that the requirements of Opthalmology under the new Ordinances were met by the training afforded to students in the Glasgow Eye Infirmary and the Glasgow Opthalmic Institution, resolved to devote the proceeds of the Foundation to the teaching of some other subject. The arrangements for this are not yet (May, 1901) completed.

*Lecturers.*

*Midwifery*—1792-1815. James Tower, C.M.
*Materia Medica*—1816-1831. Richard Millar, M.D.
*Ophthalmology*—1831-1868. William M'Kenzie, M.D.
*Ophthalmology*—1871-1900. Thomas Reid, M.D., LL.D.

## GIFFORD LECTURESHIP ON NATURAL THEOLOGY

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, "the Knowledge of God, the Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising." The Senate are the Patrons. The Lecturer is appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matriculated students and others may attend the Lectures.

1888. Professor Max Müller.
1892. Principal Caird, D.D., LL.D.
1893. Professor William Wallace, M.A.
1895. Principal Caird, D.D., LL.D.
1896. Professor Alexander B. Bruce, D.D.
1900. Edward Caird, D.C.L., LL.D., Master of Balliol.

### M'CALLUM CELTIC LECTURESHIP.

The late Rev. Archibald Kelly M'Callum, LL.D., by his holograph will, dated 8th March, 1881, to which were attached three codicils (the last dated 27th January, 1892), directed his Trustees, among other purposes, to devote an annual sum to a Lectureship, or a course of not fewer than fifteen Lectures, on Celtic Literature. He left detailed directions as to certain subjects which were to be among those discussed. The Lecturer will be appointed by the University Court for a period of three years, and will be eligible for re-election after a subsequent appointment for three years has been made. Matriculated students and others may attend the Lectures. Dr. M'Callum also directed that his library should be handed over to the University as a nucleus for a Celtic Library for the use of the Lecturers and such students as may attend the Lectures, and any others interested in Celtic Literature. The Library is to be kept separate and designated "The Celtic Lectureship Library," the sum of £10 to be annually expended in making additions thereto.

*Lecturer*—1900. Professor Magnus Maclean, D.Sc.

### ITALIAN LITERATURE.

Permission has been granted by the University Court to Dr. Fernando Agnoletti to deliver in Session 1901-2 two courses of Lectures on Italian. Each course will comprehend fifty Lectures. The one course will treat of Italian Grammar on a historical and comparative basis, and of Modern Italian Prose. This class will meet on Mondays, Thursdays, and alternate Wednesdays, at 3 p.m. In the other course a few lectures will be devoted to the origins of the Italian language and literature, followed by an introduction to and explanation of Dante's *Inferno*. The class will meet on Tuesdays, Fridays, and alternate Wednesdays, at 3 p.m.

Non-matriculated students may attend either or both of the courses on payment of a University fee of five shillings in addition to the authorised class fee.

The class is open to both men and women.

## *V.—WOMEN'S DEPARTMENT.*

### *QUEEN MARGARET COLLEGE.*

In February, 1892, the Universities Commission issued an Ordinance (No. 18), empowering the Scottish University Courts to make provision within the Universities for the instruction of women, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. The Council of Queen Margaret College, having considered the provisions of this ordinance, came to the conclusion that the purpose for which the College had been instituted would be best served by making over their work to the University of Glasgow. They accordingly, with the concurrence of Mrs. Elder, the proprietrix of the buildings and grounds hitherto occupied by the College, offered to transfer to the University Court these buildings and grounds, and the endowments (present and prospective), on condition that these should be devoted to the establishment and maintenance of University Classes for women exclusively. The University Court, after consultation with the Senate, having resolved to exercise the power conferred by Ordinance No. 18, and to provide University instruction for women mainly by the institution of separate classes, agreed to accept the offer made by Queen Margaret College, and remitted to a Committee to take the necessary steps for completing the transfer. In virtue of this arrangement the teachers in Queen Margaret College were appointed by the University Court, and the students in session 1892-93 were admitted matriculated students of the University. In 1893 the College was dissolved, and the funds were handed over to the University Court, but the name "Queen Margaret College" survives as designating the part of the University buildings and grounds which is devoted to the education of women.

The classes in Queen Margaret College will meet as follows daily, unless otherwise specified :—

## WINTER SESSION 1901-2.

## *I.—ARTS.*

### THURSDAY, 17TH OCTOBER.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Latin, Class I.,* | 9.45 a.m., | £3 3 | Prof. Ramsay and Mr. D. Rankin. |
| —— *Class II.,* | 3 p.m., | 3 3 | |
| *Greek, Class I.,* | 12 noon, | 3 3 | Prof. Phillimore and Mr. G. Macdonald. |
| —— *Class II.,* | 8.45 a.m., | 3 3 | |
| *English Language and Literature,* | 2 p.m., | 3 3[1] | Mr. A. A. Jack. |
| *French Language and Literature,* | 9.45 a.m., | 3 3 | M. Charles Martin. |
| *German Language and Literature,* | 11 a.m., | 3 3 | Mr. G. P. Thistlethwaite. |
| *Logic,*[2] | 12 noon, | 3 3 | Mr. N. D. Smith. |
| *Logic,*[2] (at the University), | 9 a.m., | 3 3 | Prof. Adamson. |
| *Moral Philosophy,*[3] | 11 a.m., | 3 3 | Mr. R. A. Duff. |
| *Moral Philosophy*[3] (at the University), | 8 a.m., | 3 3 | Prof. Jones. |
| *Political Economy* (Do.), | 2 p.m., | 3 3 | Prof. Smart. |
| *Education* (Do.), | 3.30 p.m., | 3 3 | Mr. Adams. |
| *History* (Do.), | 10 a.m., | 3 3 | Prof. Medley. |
| *Mathematics Class I.,* | 8.45 a.m., | 3 3 | Prof. Jack and Dr. Carslaw. |
| —— —— *Class II.,* | 2 p.m., | 3 3 | Prof. Jack and Mr. Bell. |
| *Natural Philosophy,* | 3 p.m., | 4 4[4] | Prof. Blyth. |
| *Physical Laboratory,* | Sat., 10 a.m. to 12 noon, | | |
| *Chemistry,* | 12 noon, | 3 3[1] | Dr. T. Gray. |
| *Chemical Laboratory,* | 10 a.m. to 1 p.m., | £3 3 to 5 5 | |

## *II.—MEDICINE.*

### THURSDAY, 17TH OCTOBER.

| *Classes.* | *Hours.* | *Class Fees.* | |
|---|---|---|---|
| *Chemistry,* | 12 noon, | £3 3[1] | Dr. T. Gray. |
| *Chemical Laboratory,* | 10 a.m. to 1 p.m., | £3 3 to 5 5 | |
| *Practical Chemistry,* | 9–11 a.m., Tues. and Thurs., | 3 3[1] | |
| *Physics,* | 3 p.m., Mon., Wed., and Fri., | 3 3[1] | Prof. Blyth. |
| *Physical Laboratory,* | 10–12, Saturdays, | | |
| *Anatomy, Junior,* | 11 a.m., | 3 3[1] | Dr. T. H. Bryce. |
| ——— *Senior,* | 3.15 p.m., | 3 3[1] | |
| *Practical Anatomy,* | 9 a.m. to 5 p.m., | 3 3[5] | |
| *Physiology,* | 2 p.m., | 3 3[1] | Prof. M'Kendrick and Muirhead Demonstrator. |

[1] Fee for a second or subsequent session, £2 2s.

[2] Women students may select either class of Logic.

[3] Women students may select either class of Moral Philosophy.

[4] Fee for a second or subsequent session, £3 3s.

[5] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

| Classes. | Hour. | Class Fee. | | |
|---|---|---|---|---|
| Materia Medica and Therapeutics, | 4 p.m., | £3 | 3 | Dr. Maclennan. |
| Pathology, Systematic, | 8 a.m., | 3 | 3¹ | Dr. Workman. |
| Surgery, | 3.30 p.m., | 3 | 3¹ | Dr. Pringle. |
| Practice of Medicine, | 4.30 p.m., | 3 | 3¹ | Dr. J. Lindsay Steven. |
| Clinical Surgery, | 9 a.m. (see Hospitals). | | | |
| Clinical Medicine, | 9 a.m., (see Hospitals). | | | |
| Midwifery, | 12 noon, | 3 | 3¹ | Professor Murdoch Cameron and Dr. J. M. Munro Kerr. |

## SUMMER SESSION, 1902.

## *MEDICINE.*

### WEDNESDAY, 23RD APRIL.

| Classes. | Hour. | Class Fee. | | |
|---|---|---|---|---|
| *Botany,* | 11 a.m., | £2 | 2¹ | Mr. W. H. Lang. |
| *Practical Botany,* | 3.30 p.m., | 3 | 3¹ | |
| *Zoology,* | 1 p.m., | 3 | 3¹ | Professor Young and Dr. J. Rankin. |
| *Practical Zoology,* | 2 p.m., | 3 | 3¹ | |
| *Practical Anatomy,* | 9 a.m. to 4 p.m., | 2 | 2² | Dr. T. H. Bryce. |
| *Embryology,* | 11 a.m., Mon., Tues., Wed., Thurs., | 2 | 2 | |
| *Practical Anatomy and Embryology,* if taken together, | | 3 | 3 | |
| *Practical Pharmacy,* | 10.30 a.m., | 3 | 3¹ | Dr. Maclennan. |
| *Practical Physiology,* | 2 p.m., | 3 | 3¹ | Prof. McKendrick and Muirhead Demonstrator. |
| *Forensic Medicine,* | 12.30 p.m., | 3 | 3¹ | Professor Glaister. |
| *Practical Pathology,* | 10.30 a.m., | 3 | 3¹ | Dr. Workman. |
| *Insanity,* | 12 noon, Wed., University, at Gartnavel 1 day weekly | 2 | 2 | Dr. Yellowlees. |
| *Diseases of the Eye,* | 4 p.m., Tues. and Fri., and Clinique, 2 p.m. on Mon. and Thurs. | 2 | 2 | Dr. A. M. Ramsay. |

HOSPITALS.—Royal Infirmary: First year, £10 10s.; Second year, £10 10s.; six months, £6 6s.; three months, £4 4s. Royal Hospital for Sick Children: Winter months, £1 1s. Glasgow Maternity Hospital, £3 3s. Belvidere Fever Hospital, £1 1s.

SCIENCE CLASSES.—Of the subjects above enumerated the following are also in the Faculty of Science, viz.:—Mathematics, Natural Philosophy, Chemistry, Botany, Zoology, Anatomy, Physiology, and attendance upon the lectures and in the practical classes qualifies for graduation in Science.

The Honours Classes in Arts and the Higher Classes in Science at the University are open to women.

The arrangements for the classes in Queen Margaret College are similar to those of the classes for men, with the exception of English, French, German, Logic, Moral Philosophy,

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[1] Fee for a second or subsequent session, £2 2s.

[2] Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

and Natural Philosophy, the arrangements for which are as follows:—

## ENGLISH LANGUAGE AND LITERATURE.

*Lecturer.*

1895. A. A. JACK, M.A.

*Assistant*—Maude G. May, M.A.

The work of the class will comprise the following subjects:—1. The history of Elizabethan Literature, with special reference to the drama (1557-1637). Books—Marlowe's *Tamburlaine* and *Dr. Faustus*, Shakespeare's *Love's Labour's Lost*, *Henry IV.*, Parts 1 and 2, *Antony and Cleopatra*, *King Lear*, *Winter's Tale*; Jonson's *Alchemist* and *Discoveries*; Spenser's *Four Hymns*; Sidney's *Apologie for Poesie*; Raleigh's *Last Fight of the Revenge*, and Bacon's *Essays*. 2. English Composition. 3. The Outlines of English Philology. 4. *The Winter's Tale* and *English Essays*, ed. Lobban (Warwick Library.)

Subject 1 will be taken on Mondays, Wednesdays, and Fridays, at 2 P.M., and the class which meets on these days will be called the Literature Class. Subjects 2, 3, and 4 will be taken on Tuesdays and Thursdays, at 2 P.M., and the class which meets on these days will be called the Language Class. Students who take English for purposes of graduation must attend both classes, but students who do not intend to graduate may take the Language Class alone, or (if they have attained the age of 18 years) the Literature Class alone. The age limit may be dispensed with on certain conditions. The fee for the Language Class or the Literature Class alone is £2 2s.

Books recommended for summer reading:

1. Mr. Stopford Brooke's *Primer of English Literature*; *English Essays*, ed. Lobban (Warwick Library).
2. Professor Nichol's *Composition Primer* (Macmillan).
3. Mr. Champney's *History of English* (Rivington).

For further details as to the work of these classes, and as to the Honours Class, see p. 71. For Vacation work, and for the Nichol Memorial Prize, see Index.

## FRENCH LANGUAGE AND LITERATURE.

*Lecturers.*

1895. Alfred Mercier, L.-ès-L.
1898. CHARLES MARTIN, M.A. (Paris).

The class meets daily at 9.45 a.m., and the course qualifies for graduation in Arts. The work of the class includes the subjects stated in the syllabus of the class of French Language and Literature at page 72.

Students who take French for purposes of graduation must attend both classes, but students who do not intend to graduate may take the Language Class alone or the Literature Class alone. The fee for the Language Class alone or the Literature Class alone is £2 2s.

HONOURS CLASS.—See p. 72.

## GERMAN LANGUAGE AND LITERATURE.

*Lecturer.*

G. P. THISTLETHWAITE.

ORDINARY CLASS.—This class meets daily at 11 a.m., and the course, which extends to one hundred meetings, qualifies for graduation in Arts. The work of the class includes the subjects stated in the syllabus of the Class of German Language and Literature at page 73.

Students who do not intend to graduate may take either the Literature Class or the Language Class alone. The fee for one class alone is £2 2s.

HONOURS CLASS.—See p. 73.

## LOGIC.

*Lecturer*—NORMAN D. SMITH, M.A.

This class meets daily at 12 noon, and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class includes the subjects stated in the syllabus of the class of Logic and Rhetoric at page 74.

## MORAL PHILOSOPHY.

*Lecturer*—ROBERT A. DUFF, M.A.

This class meets daily at 11 a.m., and the course, which extends to one hundred meetings, qualifies for graduation in Arts.

The work of the class includes the subjects stated in the syllabus of the class of Moral Philosophy at page 75.

## NATURAL PHILOSOPHY (PHYSICS).

*Lecturer.*

JAMES BLYTH, M.A., F.R.S.E.

This class will meet daily at 3 p.m., except on Saturdays; also, for practical work, on Saturdays, 10 to 12. The course will include :—

(1) Experimental Physics (Properties of Matter, Sound, Heat, Light, Magnetism, Static Electricity, Voltaic Electricity, Electro-Magnetism), Mondays, Wednesdays, and Fridays. The Lectures will be fully illustrated by experiment.

(2) Theoretical Mechanics (Elementary Kinematics, Elementary Dynamics), Tuesdays and Thursdays.

(3) Practical Physics, Saturdays, 10 to 12. The students will work practically in the Laboratory, and will be taught the construction and use of physical apparatus generally, and will also be required to employ the various instruments, so as to verify natural laws and obtain numerical results.

*Text-book.*—Knott's *Elementary Physics* or Watson's *Physics.*

Students intending to take a Degree in Arts must take the whole course. The requirements of students preparing for Degrees in Medicine will be met by the first division of the course, and by attending three days weekly, viz., Mondays Wednesdays, and Fridays.

## *VI.—SPECIAL STUDY AND RESEARCH.*

In Ordinance No. 61, the Universities Commission (1889) made the following regulations for the encouragement of special study and research, and for the appointment of Research Fellows :—

I. It shall be in the power of the Senatus Academicus in each University, with the approval of the University Court, to make regulations under which graduates of Scottish Universities or of other Universities recognized by the University Court for the purposes of this ordinance, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University.

II. It shall be the duty of the Senatus Academicus in each University—(1) To receive and decide upon all applications for admission to prosecute special study or research; (2) To prepare a list of all persons so admitted (hereinafter referred to as Research Students); (3) To make regulations for the supervision of their work; (4) To satisfy themselves from time to time that the Research Students are carrying on their work in the University in a satisfactory manner; (5) To suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

III. Every applicant for admission must send in to the Senatus Academicus a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity, and general qualifications.

IV. Any application for admission shall be in the first instance referred by the Senatus Academicus to the appropriate Faculty, or to a Committee appointed by the Senatus; one member of the Committee shall always be a Professor or Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the Committee who has not satisfied them by examination or otherwise that he is qualified to prosecute the proposed line of study or research, and further—(*a*) That his proposed line of study or research is a fit and proper one; (*b*) That he possesses a good general education; (*c*) That he is of good character; (*d*) That he proposes to prosecute his studies or research during a period to be approved by the Senatus Academicus. The Faculty or the Committee shall make a report to the Senatus Academicus upon each application. It shall also be their duty, subject to the regulations of the Senatus Academicus, to provide for the supervision of the Research Student's work, and to report at least once a year to the Senatus as to his progress and conduct. The Senatus shall then determine whether he shall remain a Research Student.

V. Every Research Student shall be required to matriculate each year, paying the ordinary fee.

VI. Research Students shall have access to and the use of the University Laboratories and Museums, under such conditions as to payment and otherwise as the University Court, after consultation with the Senatus Academicus, may determine.

Under this section the following regulations have been made:—1. In each laboratory each Research Student shall make payment of a sum which is estimated by the Professor as sufficient to cover the ordinary expenses incident to the Research Student's work. Apparatus and material beyond what is included in the ordinary operations of the laboratory shall be charged to the Student, unless the Professor judges that such apparatus and material will be a useful addition to the laboratory. But it shall be in the power of each Professor to propose to the University Court in any particular case that these payments may be remitted in whole or in part. 2. In all matters of discipline the Research Student shall be under the control of the Professor in whose laboratory he works. 3. All papers arising out of work done in a laboratory shall be submitted to the Professor before publication, and in all such publications a due recognition of the laboratory shall be inserted.

VII. The title of Research Fellow may be conferred by the Senatus Academicus, with the approval of the University Court, on Research Students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit to any Research Fellow under the powers of Ordinance 25, Section XI., sub-section 8.

VIII. (1) The Research Fellows shall be appointed as aforesaid after consideration of the report or reports submitted in terms of Section IV. hereof.

(2) The title of Research Fellow may be conferred either at the commencement of the Research Student's course of study or research, or at any time during its progress, as the Senatus Academicus may determine.

(3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.

(4) Research Students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

IX. Nothing herein contained shall prejudice the right of Research Students to such Fellowships, Scholarships, or Prizes as may be open to them by Ordinance or Deed of Foundation.

X. The University Court may, subject to the provisions of

Ordinance No. 25, Section XI., sub-section 8, provide such sums as it may think fit in aid of the expenses of special study or research.

*Research Fellow.*—Emeritus Professor Lord Kelvin, G.C.V.O., 1900.

*Research Students.*—Jas. Slater Dunlop, M.A., B.Sc., 1900; Alfred Walter Stewart, 1901.

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## *VII.—LIBRARIES, MUSEUM, BOTANIC GARDEN.*

### *UNIVERSITY LIBRARY.*

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Librarian is appointed by the University Court. The Library is under the immediate superintendence of a Committee consisting of three members of the University or others, not being members of Senate, appointed by the University Court, and of six members of Senate appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports.

The Library is always increasing by donations and by a grant of £707 per annum, formerly paid by the Treasury, as compensation for the loss of the Stationers' Hall privilege, and now received from the University Court.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following:—

The Collection bequeathed to the University by the late W. Euing, Esq., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The library of the late Sir William Hamilton, Professor of Logic in the University of Edinburgh, amounting to about 8,000 volumes. This collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the subscribers was inserted in the *Calendar* for 1879-80.

The WALKER-ARNOTT Botanical library of 970 volumes.

The Musical library of the late THOMAS L. STILLIE, ESQ., numbering 760 volumes. It contains the works of the chief composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The collection of books on Palestine, which belonged to the late DR. A. B. M'GRIGOR, consisting of 655 volumes of works, illustrating the natural and civil history, topography, and antiquities of Jerusalem and the Holy Land. This collection was presented along with 83 volumes, containing about 1,000 pamphlets, by Alexander M'Grigor, Esq.

The library of the REV. A. K. MACCALLUM, LL.D., containing over 3,000 volumes, bequeathed to the University—along with an annual sum of £10 to be spent on its increase—as the nucleus of a Celtic library.

A collection of works, numbering over 600 volumes, relating to Mediaeval Philosophy, which formed part of the library of the late PROFESSOR VEITCH—presented by Mrs. Veitch.

A selection, consisting mainly of theological works and amounting to about 3,800 volumes, from the library of the late Rev. Alexander Robertson, who also left the residue of his means to found a lectureship in the University in defence of the Christian religion.

The works on Mining belonging to the late ALEX. MACDONALD, ESQ., M.P.; works on Engineering from the libraries of the late PROFESSORS LEWIS GORDON and MACQUORN RANKINE; works on Oriental literature from the library of the late PROFESSOR WEIR; a large collection of medical works, theses, and pamphlets, from the late PROFESSOR ALLEN THOMSON; 800 volumes of general literature from the library of the late F. A. ECK, ESQ.; over 1,000 volumes—selected from the library of the late JAMES HOTSON, merchant—presented by DR. THOMAS REID; and numerous works of reference for the Reading Room from the late DR. A. B. M'GRIGOR.

Wall or table cases were given by William S. Dixon, Esq. (1); William Euing, Esq. (1); Professor Rainy, M.D. (1); Professor Sir James Roberton, LL.D. (2); and Alex. Whitelaw, Esq., M.P. (2).

The custody and management of the Library are regulated by Ordinance No. 64, and by the rules framed under that Ordinance and approved by the University Court on 14th November, 1895. The following are the principal regulations relative to the use of the Library:—

Books shall not be given out except to the borrower in person, or to some one having written authority from him.

It shall be in the power of the Librarian at any time to withdraw any work from circulation, subject to appeal to the Library Committee; and to call in any book from any borrower after the lapse of the period for which such borrower is entitled to retain it, upon receiving a written request to do so from any person entitled to the use of the Library. In the notice of recall a period of not less than three clear days shall be allowed for making the return, and the penalties leviable for neglect shall be specified in the notice.

The following classes of work, viz.:—Manuscripts, rare books or books in any way difficult to be replaced, works of reference, separate maps or plates, unbound works or parts of works, pamphlets or books not sufficiently protected by the binding, shall not be given out except on an order of, and under conditions to be fixed by, either (*a*) the Senate, (*b*) the Library Committee, or (*c*) three Members of the Library Committee, according as, in the discretion of the Librarian, the special circumstances of each case may require.

Each member of the following classes of readers shall be allowed to borrow, and to have in his, or her, possession at one time the undermentioned number of volumes, but not more:—

Each Member of the Senatus Academicus, thirty volumes.

Each University Lecturer, twenty volumes.

Each Assistant and Demonstrator, and each holder of a Teaching Fellowship, fifteen volumes.

The Librarian, ten volumes; and each Assistant-Librarian, five volumes.

Each Extra-Academical Teacher, recognized by the University Court, in the town in which the University is situated, ten volumes.

Each retired Principal or Professor, ten volumes.

Each Member of the University Court, during his tenure of office, ten volumes.

Each Member of the General Council of any Scottish University (and each Graduate under the age of twenty-one years) in each year in which he, or she, shall have paid a subscription to the Library of ten shillings and sixpence, six volumes.

Provided that no Member of the University Court or of the General Council shall be entitled to obtain from the University Library books required by the teachers or students of the University in the prosecution of academic work and research, and that it shall be in the discretion of the Librarian, subject to appeal to the Library Committee, to decide from time to time what books are so required.

Any Member of the General Council of any Scottish University shall be allowed to compound for the Library subscription by a single payment of Five Guineas, which shall secure to him, or her, for life the same privileges as would accrue from the annual payments.

It shall be in the power of the Library Committee from time to time to grant the use of the Library to persons who may not be Members of the University, for purposes of literary research, and the names of those privileged readers shall be reported annually to the University Court. All grants under this section shall terminate with the close of the reading year, but shall be renewable if again applied for. Each special reader shall pay an annual subscription of ten shillings and sixpence, and shall be entitled to borrow six volumes at one time, but not more.

Subject always to the provision as to the return of books for the annual inspection, all persons entitled to the use of the Library under the foregoing regulations shall have the right to retain each book borrowed during the winter session for one month, and each book borrowed during the summer session for two months, from the date of borrowing ; and may further retain each book until it shall have been recalled by the Librarian.

Every Matriculated student, or other Student admitted by ordinance to the use of the Library, shall be entitled to have in his, or her, possession at one time, during the winter session, four volumes but not more, and during the summer session and vacation, six volumes but not more. Every student shall have the right—subject to the return of books for the inspection—to retain any book during the winter session for two weeks, and during the summer session for four weeks, from the date of borrowing, and may further retain each book until it shall have been recalled by the Librarian. But no student shall be permitted to borrow any book from the Library until he, or she, shall have lodged with the Librarian a deposit of £1 in security for the due return of the books and the payment of any fines which may be incurred.

During the winter session such students only as are attending the English Literature classes shall be allowed to borrow works of fiction in English, and then only to the extent of two volumes at one time. During the summer session and vacation students may borrow three volumes of fiction at one time, but not more.

The reading term for Students, Members of General Council, and Special Readers, shall begin with the commencement of the winter session in each year, and terminate with the close of the autumn vacation following.

Readers shall not be allowed to borrow books in more than one capacity.

A general inspection of the Library shall take place in April, beginning with the seventh, and continuing for eight lawful days thereafter.

All works whatever, and by whomsoever borrowed, shall be returned to the Library before the beginning of the period of the annual inspection under the penalties hereinafter mentioned. The Library shall be wholly closed during the time of the inspection.

If any person shall retain any volume after the commencement of the period of the annual inspection, such person shall incur a fine of one shilling for each volume; and in the event of any volume not being returned before the close of one week after the last day of the suspension, the fine shall be repeated from week to week until the volume is returned, or until the total amount of the fine shall have reached the sum of ten shillings.

If any person, when required by the Librarian to return a book, shall fail to do so before the expiry of the time specified in the notice, such person shall incur a fine of one shilling for each volume, and thereafter a further penalty of sixpence per day so long as the volume is not returned, or until the total amount of the fine shall have reached the sum of ten shillings.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured, while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

So long as any Library subscription or any fine incurred remains unpaid, and so long as any person continues in possession of a book which he is not entitled to retain, the right of the defaulter to the use of the Library shall be suspended and remain in abeyance.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant Librarian in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall.

Visitors on giving their names will be conducted over the Library by an attendant. They are not permitted to enter the Reading Room during the hours when it is open to students.

No person, except Members of the Teaching Staff, shall otherwise be admitted to the interior of the Library without the special permission of the Chairman of the Library Committee or the Librarian.

All persons, whether readers or visitors, are strictly prohibited from entering the Bays, or taking the books from their places on the shelves.

The Library is open for giving out and receiving back books every lawful day during the winter session from 11 A.M. till 2.30 P.M., except the Christmas and other holidays specially appointed by the University, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the summer it is open on Mondays, Wednesdays, and Fridays from 11.30 A.M. till 2 P.M.

## *CATALOGUES.*

The General Alphabetical Catalogue may be consulted in the Catalogue Room by Readers, on application to the Librarian.

Students and Graduates who are engaged in special research will, on similar application, have access to the Classified Catalogues. These catalogues were arranged by the late Professor Dickson, who held the office of Curator of the Library, and the expenses incurred by him in connection with their preparation were defrayed by the late Dr. A. B. M'Grigor.

## *READING-ROOM.*

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, Saturdays and holidays excepted, during the winter session from 9 A.M. till 4.30 P.M., and during the summer session from 9 A.M. till 2 P.M.

The Room is primarily intended for readers consulting the books of the Special Collection; but so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room:—

Every Matriculated Student who shall at the beginning of the session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without producing his voucher.

Every such student shall on entering apply for a tally entitling him to a seat, shall use it only for the table indicated thereon, and shall personally return it to the Assistant in charge. All readers are required to take at once the seats assigned to them, to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the Room (and Vestibule) with as little noise as possible. Readers shall exhibit their tallies when asked; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to the Assistant-Librarian in the Vestibule.

The Assistant-Librarian in charge is instructed to report at once to the Library Committee the name of any student transgressing the rules.

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## *Donations to the University Library.*

### List of Donations from 1st March, 1900, to 28th February, 1901.

Academia das Sciencias de [illegible].—[illegible]. 1900.
Accademia dei Lincei, Roma.—Atti. Serie 5a. Memorie. Classe di scienze morali. Parte 2a. VIII.—Rendiconti. Classe di scienze fisiche. IX. 1900. Classe di scienze morali. IX. 1900.
Accademia delle Scienze Fisiche e Matematiche di Napoli.—Rendiconto. Serie 3a. VI. 1900.
Accademia [illegible], Roma.—Atti. [illegible].
Admiralty.—[illegible].—Cape of Good Hope catalogue of [illegible] stars. [illegible].—Annals of the Cape of Good Hope Observatory. [illegible].—Catalogue of [illegible].—Report of Cape of Good Hope Observatory for 1899.
Agent General for Queensland.—Catalogue of exhibits in the Queensland Court, Paris Exhibition, 1900.—[illegible], the garden of Queensland. [illegible].—Information as to Queensland and its resources.
American Society of Mechanical Engineers.—[illegible] index of Transactions. I.-XX.
Army Medical Department.—Report for 1898.
Asiatic Society of Bengal.—Catalogue of Sanskrit books and MSS. in the [illegible] Library. II.—[illegible].
Australian Museum.—Records. III. 7, 8.
Berwickshire Naturalists' Club.—Proceedings. XVI. [illegible].
Birmingham Philosophical Society.—Proceedings. X., XI. 1.
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John Brown, B.Sc.—Horological journal. XL., XLI.—Practical photographer. X., XI.—Nature. LX., LXI.
The City Chamberlain, Glasgow.—Municipal and other public accounts. 1899-1900.
Archaeological Survey of N.W. Provinces and Oudh.—Annual progress report. 1899-1900.
King's College Hospital.—Reports. VI.
Pathological Society of London.—Transactions. XXVII.-LI.
Committee of the Egypt Exploration Fund.—Nine fragments of Greek papyri from the sites of Oxyrhynchus and the Fayum.
Columbia University, New York.—Cooper, Word formation in the Roman sermo plebeius. Coudert, Marriage and divorce laws. And 21 other dissertations.—University quarterly. II.—Fiske, The tales of terror.
American Mathematical Society.—Transactions. I. 2-4, II. 1.
St. Andrews University.—Library bulletin. No. 1.
Caird Memorial Window Committee from surplus funds.—Gallia Christiana. 16 vols.

## *DIVINITY HALL LIBRARY*

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the University Court of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

## *HUNTERIAN MUSEUM.*

This Museum was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archaeological relics, and appropriated £8,000 for the erection of a building for their reception and preservation.

The building erected in 1804 became the property of the Union Railway Company, as explained at page 32. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists of two halls, the upper of which is galleried.

The Hunterian Museum is under the immediate superintendence of the Museums Committee, consisting of two members of the University or others, not being members of Senate, appointed by the University Court, and of four members of Senate, appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports. The Keeper of the Museum, by present custom the Professor of Natural History, is appointed by the Trustees, who, in terms of Dr. Hunter's will, are the Principal and Professors of the College: their functions are now discharged by the University Court. Keeper—Professor John Young, M.D.; Under-Keeper, John Mackay; Under-Keeper in Pathological Department, J. H. Teacher, M.B., C.M.

Visitors desirous of consulting in the Museum should, if possible, arrange to come between 2 and 4 P.M. Numismatists desirous of consulting the cabinet of medals should communicate with the Keeper a few days before the date of their proposed visit.

The Museum is now open to the public from 11 to 3 in winter, 11 to 4 in summer; admission sixpence.

*Stevenson Catalogue of Greek Coins.* Pt. I. By Geo. Macdonald, M.A. Pp. xv., 495, with 30 plates. Price £3 3s.

*Tituli Hunteriani: Catalogue of Roman Stones.* By James Macdonald, LL.D., Annan. Price 10s. 6d.

*Bellahouston Catalogue of Anatomical and Pathological Preparations.* By J. H. Teacher, M.B., C.M. 2 vols. 8vo. Price to students, 2s.

The revenue derived from the admission fee has been hitherto the only fund available for the maintenance and extension of the collection. Donors of specimens are entitled to free admission. Each matriculated student has the privilege of introducing two friends three times during the session.

### *Donations to Museum* 1900-1901.

The following donors have contributed to the Museum during the past year:—

Mr. A. E. Clapperton, Natural Cast of Vertebral Bone of Reptile; Mr. Alfred Walter Stewart, Three Rock Specimens from the Whangie; Rev. Dr. Ross, Beetles and Caterpillars from Manchuria; Photo. Portrait of James Buchanan, M.A.; Dr. W. Carrick Anderson, Ten Specimens of Japanese Coals; Professor Biles, Skull of Hippopotamus; Dr. James A. Campbell, M.P., Portrait of R. Cunningham Graham of Gartmore; Mr. John E. Foster, Cambridge, Oak Cabinet of Insects.

In addition to the annual gifts by friends, among whom in former years were conspicuous Mr. Robert Gray, Dr. D. Robertson, Rev. Dr. H. Crosskey, J. Lumsden of Arden, the late Geo. Paterson, Prof. J. Nichol, Captain W. Ramsay, Dr. R. Walker, D. A. Frew, the following large collections have been added:—In 1875 Miss Brown of Lanfine divided her father's mineral collection between the Universities of Glasgow and Edinburgh: in 1896 she gave a further group of polished amethyst, marble, and jade cups and tessaræ, with some enamels; in 1898 she bequeathed a signed copy of the Solemn League and Covenant, a cabinet of minerals, antiquities from various localities, and the portrait of her father, Dr. Brown, now in the Museum Hall. The family of the late F. A. Eck, Esq., of Hollybush, presented his collection of minerals, over 3000 specimens, one cabinet representing the minerals of Central and Southern America, the other containing European specimens. To this Miss Eck added, in 1896, 150 precious stones. The antiquities of Peru, etc., are well represented. In 1895, T. Graham Young, Esq., of Limekilns, presented a large series of Etruscan, Greek, and Roman pottery, as well as of medieval ceramics and glass. In 1899 Mr. and Mrs. Campbell of Tullichewan gave an important group of vases, and several interesting specimens were presented by Mrs. Eustace Smith, of Algiers. All these, with a previous selection of Cyprus pottery and glass, the gift of Robert Walker, Esq., of Lethamhill, are shown in the Library. In 1888 the Governors of the West of Scotland Technical College made over to the Hunterian Museum the Zoological and Ethnological Museum of the Andersonian University (later known as Anderson's College, and now merged in the Technical College), the space being required for collections bearing on subjects taught in the College. Technical students have admission to the Hunterian Museum for purposes of study. The collection so transferred, of great value and interest, represents the generosity of the manufacturists and merchants of Glasgow, to whom the Hunterian is also under great obligations.

James Stevenson, Esq. of Hailie, has defrayed the cost of the Catalogue of Greek Coins, and the Bellahouston Trustees that of the Anatomical Catalogue. The Catalogue of the Printed Books is completed in manuscript, as is that of the MSS. in the Library. Rev. Thomas Weir, B.D., prepared the Catalogue of Syriac MSS. published by the Asiatic Society of London. Other catalogues are in course of preparation.

## *BOTANIC GARDEN.*

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture Room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of Lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the University. The removal of the University to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium-Room in the Garden, the Professor has continued to deliver his Lectures and to have his Laboratory at the University. Suitable buildings for the Botanical department have now been erected within the University grounds.

## *MARINE BIOLOGICAL ASSOCIATION OF THE WEST OF SCOTLAND.*

The station of the Association is situated near Keppel Pier, in the island of Cumbrae, and was opened in May, 1897. A constitution was adopted at a meeting of the Association held on 15th January, 1901. The chief object which the promoters have in view is to afford opportunities for the investigation of the Marine Fauna and Flora of the district known as the Clyde Sea Area, or of other parts of the West Coast of Scotland. A practical laboratory has been provided and equipped, and one of the tables in it, for which the University Court subscribes, is called the University Table. The nomination of students to the privilege of working at this table is made by the Senate on the report of the Professors of Natural History and Botany. Applications should be addressed to the Clerk of Senate.

## *VIII.—GRADUATION IN THE SEVERAL FACULTIES.*

### *EXAMINERS.*

**Preliminary Examinations in Arts, Science, and Medicine.**

The University Court of each University annually appoints as Examiners such number of Professors or Lecturers in the Faculty of Arts in that University, and such additional Examiners as may be deemed necessary. The Preliminary Examinations in Arts, Science, and Medicine are conducted by these Examiners, under the control and supervision of a Joint-Board appointed in January of each year by the several University Courts from among the Examiners, according to a scheme of rotation prescribed in Ordinance No. 13, Section IV., as supplemented by Ordinance No. 43, Section I. The Joint-Board holds office from the first day of February to the thirty-first day of January in the succeeding year, and sits at each University in rotation in the following order:—Edinburgh (1901-2), Glasgow (1902-3), Aberdeen (1903-4), St. Andrews (1904-5). It consists of eight Professors or Lecturers and eight additional Examiners, two Professors or Lecturers and two additional Examiners being appointed by the University Court of each University, according to the scheme printed on p. 161. In the case of a candidate at a Preliminary Examination who is permitted to offer himself for examination in any language not included in the Preliminary Examination, each University makes special arrangements for the examination of its own candidates.

| University. | 1893 and every Fourth Year thereafter (1901). | 1894 and every Fourth Year thereafter (1902). | 1895 and every Fourth Year thereafter (1903). | 1896 and every Fourth Year thereafter (1904). |
|---|---|---|---|---|
| St Andrews, | English (Professor). | English (Professor). | English (Additional Examiner). | English (Additional Examiner). |
| | Classics (Additional Examiner). | Classics (Professor). | Classics (Professor). | Classics (Additional Examiner). |
| | Mathematics and Dynamics (Additional Examiner). | Mathematics and Dynamics (Additional Examiner). | Mathematics and Dynamics (Professor). | Mathematics and Dynamics (Professor). |
| | Modern Languages (Professor or Lecturer). | Modern Languages (Additional Examiner). | Modern Languages (Additional Examiner). | Modern Languages (Professor or Lecturer). |
| Glasgow, | English (Additional Examiner). | English (Professor). | English (Professor). | English (Additional Examiner). |
| | Classics (Additional Examiner). | Classics (Additional Examiner). | Classics (Professor). | Classics (Professor). |
| | Mathematics and Dynamics (Professor). | Mathematics and Dynamics (Additional Examiner). | Mathematics and Dynamics (Additional Examiner). | Mathematics and Dynamics (Professor). |
| | Modern Languages (Professor or Lecturer). | Modern Languages (Professor or Lecturer). | Modern Languages (Additional Examiner). | Modern Languages (Additional Examiner). |
| Aberdeen, | English (Additional Examiner). | English (Additional Examiner). | English (Professor). | English (Professor). |
| | Classics (Professor). | Classics (Additional Examiner). | Classics (Additional Examiner). | Classics (Professor). |
| | Mathematics and Dynamics (Professor). | Mathematics and Dynamics (Professor). | Mathematics and Dynamics (Additional Examiner). | Mathematics and Dynamics (Additional Examiner). |
| | Modern Languages (Additional Examiner). | Modern Languages (Professor or Lecturer). | Modern Languages (Professor or Lecturer). | Modern Languages (Additional Examiner). |
| Edinburgh, | English (Professor). | English (Additional Examiner). | English (Additional Examiner). | English (Professor). |
| | Classics (Professor). | Classics (Professor). | Classics (Additional Examiner). | Classics (Additional Examiner). |
| | Mathematics and Dynamics (Additional Examiner). | Mathematics and Dynamics (Professor). | Mathematics and Dynamics (Professor). | Mathematics and Dynamics (Additional Examiner). |
| | Modern Languages (Additional Examiner). | Modern Languages (Additional Examiner). | Modern Languages (Professor or Lecturer). | Modern Languages (Professor or Lecturer). |

### Degrees in Arts.

The Examiners for Degrees in Arts are the Professors whose subjects qualify for Graduation in Arts, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

### Degrees in Science.

The Examiners for Degrees in Science are the Professors whose subjects qualify for Graduation in Science, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

### Degrees in Medicine.

The Examiners for Graduation in Medicine are the Professors whose subjects qualify for Graduation in Medicine, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary, such provision being made as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

No person is eligible for appointment to the office of additional Examiner, whether for Preliminary Examination or for Degrees in Arts, Science, or Medicine, who is a Professor, Lecturer, or University Assistant or Demonstrator in any Scottish University, and the appointment of any additional Examiner during the currency of his term of office to a Professorship, Lectureship, or to the office of University Assistant or Demonstrator in any Scottish University is held to vacate his office of Examiner. The periods of appointment of additional Examiners are so adjusted as to secure that all the Examiners shall not vacate their office at the same time ; but no Examiner can be appointed for a longer period than four years, and no person who has held the office of Examiner for a period of three or four years is eligible for reappointment to the office of Examiner in the same University until he has ceased to hold the office of Examiner in such University for not less than one year.

In the event of a vacancy in the office of a member of the Joint-Board, or of an Examiner or additional Examiner in Arts, Science, or Medicine, occurring otherwise than by expiration of his term of office, the person appointed in his room is appointed for the remainder of such term only.

### Degrees in Law.

The Examiners for the Degree of Bachelor of Laws are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional Examiners appointed by the University Court.

The Examiners for the Degree of Bachelor of Law are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional examiners appointed by the University Court.

### Degrees in Divinity.

The Examiners for the Degree of Bachelor of Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

# *REGULATIONS FOR GRANTING DEGREES*

## I. GRADUATION IN ARTS.

### Regulations applicable to all who have entered on their Academical Course since 1st October, 1892.

The conditions on which the Degree of Master of Arts is now conferred are regulated by Ordinances No. 11,[1] No. 44, No. 148, No. 160, and No. 168 of the Universities Commission (1889), the principal provisions of which are the following:—

I. The Academical year in each University shall commence on the first day of October. The classes shall meet for the winter session (which shall include not less than twenty teaching weeks) on such day thereafter as the Senatus of each University shall determine, and shall close not later than the tenth day of the following April.

The University Court of each University shall institute a summer session in such of the subjects or branches of subjects qualifying for graduation in Arts as may be determined by the said Court after consultation with the Senatus. Such session shall commence on such day as the Senatus of each University shall determine, and shall include ten teaching weeks at least. The classes shall be conducted by the Professors, or by Lecturers appointed under Ordinance No. 17 (Regulations as to Assistants and Lecturers).

II. The Curriculum for the Degree of Master of Arts (M.A.) shall extend over not less than three winter sessions, or two winter sessions and three summer sessions.

### Preliminary Examination.[2]

III. (1) Before entering on the Curriculum (subject to the proviso contained in Section IV., Sub-section 1) each student shall pass a Preliminary Examination in the following subjects:—

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[1] This ordinance was printed in full in the [illegible] Calendar for [illegible], pp. [illegible], and the modifications made by Ordinance No. 44 were inserted in italics in the *University Calendar* for [illegible].

[2] Supplementary Regulations issued by the Joint Board on 14th January, [illegible], have been inserted in smaller type at the points in the Ordinances to which they relate.

1. English.
2. Latin or Greek.
3. Mathematics.
4. One of the following:—Latin or Greek (if not already taken), French, German, Italian (or such other language as the Senatus Academicus may approve), Dynamics.

Under this sub-section the Senate has approved of (1) Japanese, (2) Spanish. Any candidate who proposes to be examined in Japanese or Spanish or in any other language than the six mentioned in the Ordinance is required to make intimation to the Senate before 1st February or 1st July for the Spring and Autumn Examinations respectively.

(2) The examination must be passed in the matters and on the standards hereinafter defined; but there shall be a higher and a lower standard in Latin and in Greek, and a higher, an intermediate, and a lower standard in Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two; subject always to the conditions relative to attendance contained in Section IV. hereof.

(3) English shall include Grammar and Composition, and the outlines of Geography and British History, and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

In the case of a foreign student, whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint-Board of Examiners may deem sufficient.

The Joint-Board has issued the following directions showing the character of the papers to be set in English:—

English will include (*a*) Grammar, (*b*) Composition, (*c*) Literature, (*d*) History, and (*e*) Geography.

(*a*) Grammar will include Analysis, Parsing, Derivation, and Correction of Sentences.

(*b*) Composition will include an Essay and Paraphrasing.

(*c*) Literature will comprise a knowledge of certain prescribed books of two or three writers. Questions requiring a general knowledge of the life and works of the greater writers will not be set; but one or two questions may be set, giving an opportunity to candidates who have read widely in English Literature to show their knowledge. The prescribed books will be:—For 1901, Shakespeare, *King Lear*; Scott, *Old Mortality*; Macaulay, *Two Essays on William Pitt, Earl of Chatham* (Macmillan). For 1902, Shakespeare, *As you Like It*; Lamb, *First Essays of Elia*; Dickens, *Barnaby Rudge*.

(*d*) History will include a knowledge of one of the three following periods, questions in each of which will be set in each examination, viz.: The outlines of the History of both England and Scotland (*a*) from the Roman Occupation to 1603; (*b*) from 1603 to the Union of the Parliaments in 1707; (*c*) from the Union of the Parliaments to the Reform Bill of 1832.

(*e*) Geography will include a general knowledge of the Geography of the World, and a special knowledge of the Geography of the British Empire.

(4) Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin

or Greek. The higher standard shall not be lower than that presently [before October, 1892] adopted in the examination for a Curriculum of three sessions, or for the Higher Grade Leaving Certificate of the Scotch Education Department, and the lower standard shall not be lower than that presently adopted for the Lower Grade Leaving Certificate of the said Department.

The Latin examination on the higher standard will be: Translation, Prose Composition, Grammar, and Sentences.

The Greek examination on the higher standard will be: Translation, Sentences, and Grammar. An easy passage of continuous English Prose will be set either as an alternative or a substitute for the English sentences hitherto set.

The passages for translation both from Greek and Latin will include Prose and Verse.

The Latin examination on the lower standard will be: Translation and Easy Prose Composition, Grammar, and Sentences.

The Greek examination on the lower standard will be: Translation, Sentences, and Grammar.

In the Latin and the Greek papers both on the higher and lower standards candidates are required to satisfy the Examiners both in Composition and in Translation.

Candidates who, having taken in Latin or Greek the examination on the higher standard, have failed to pass on that standard, but have obtained a percentage of marks equivalent to a pass on the lower standard, may be held by the Board to have passed the examination on the lower standard.

(5) French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian Authors not previously prescribed, and translation from English into French, German, or Italian; and the standard shall not be lower than that presently adopted for the Higher Grade Leaving Certificate of the Scotch Education Department.

For the examination in French and German—

Two papers shall be set, both in French and German: an hour and a half being allowed for the first paper, and two hours for the second; the first paper will contain a passage for translation from English into French or German, with some short sentences of an idiomatic character; the second paper will contain a set of grammatical questions, two passages for translation into English (one in verse, one in prose), and a selection of literary or philological questions, from which the candidates will be allowed to answer one only.

The questions on Literature will be confined, year by year, to certain groups of authors, as in the following scheme, viz.:

FRENCH.—(i.) In October, 1901 (19th century)—Chateaubriand, Madame de Staël, Lamartine, Victor Hugo, Alfred de Musset, Alexandre Dumas, George Sand, Balzac, Prosper Mérimée, Augustin Thierry, Mignet, Michelet. (ii.) In April and October, 1902 (17th century)—Pascal, Descartes, Corneille, Racine, Molière, Boileau, La Fontaine, Madame de Sévigné, Bossuet, Fénelon, La Rochefoucauld, La Bruyère.

GERMAN.—(i.) In October, 1901—Jean Paul, the Schlegels, Novalis, Tieck, Arnim, Brentano, Grillparzer, Heine, Uhland. (ii.) In April and October, 1902—Klopstock, Wieland, Lessing, Herder, Bürger, Voss, Friedrich Leopold Stolberg, Hölty, Leisewitz.

(6) Mathematics on the lower standard shall comprise—(a) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentages, Square Root, Simple Interest; (b) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (c) Geometry: Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's

will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

(7) Mathematics on the intermediate standard shall include the following, in addition to the subjects included in the lower standard, viz.:—(*a*) Euclid: Book VI., Propositions 1—19, or Geometry equivalent thereto. (*b*) Algebra: Quadratic Equations, Ratio and Proportion. (*c*) The Trigonometry of Right-angled Triangles.

(8) Mathematics on the higher standard shall, in addition to what is included on the lower standard, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with Deductions, Quadratic Equations, Trigonometry to the Solution of Triangles inclusive, and the use of Logarithmic Tables.

In the examination in Mathematics on the higher and intermediate, and on the lower standards each question in Geometry will consist of two parts, of which one will be an easy deduction or illustrative exercise on the proposition set as bookwork.

The papers in Mathematics on the higher standard and on the intermediate standard will be devoted to the various subjects comprised in them as nearly as possible in the following proportions: two-fifths to Geometry, two-fifths to Algebra (including Arithmetic, if thought desirable), and one-fifth to Trigonometry.

Candidates for the higher standard may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

The pass-mark for candidates on the intermediate standard is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the intermediate standard; but such candidates will receive credit for any question they may answer.

The paper in Mathematics on the lower standard will be devoted to the various subjects comprised in as nearly as possible the following proportions: four-ninths to Geometry, three-ninths to Algebra, and two-ninths to Arithmetic.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

(9) Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

The paper on Dynamics will be directed to test the candidate's knowledge of the fundamental principles of the subjects included in it. As far as possible each question will consist of two parts, one of which will be a numerical or other simple illustrative example of the principle with which the other part of the question deals. About one-seventh of the paper will be devoted to Kinematics, and the remainder of the paper will be assigned to Kinetics, Statics, and Hydrostatics in as nearly as possible equal proportions.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each section of the paper.

Dynamics shall include the following:—(*a*) *Kinematics.* Displacements, velocities and accelerations of a moving point, with their compositions and resolutions. Translation of a rigid body. Relative velocity of two moving points. (*b*) *Kinetics.* The laws of motion. Momentum, force, energy, work—their measures in the British and C.G.S. systems of units. Change of units. Rectilinear motion of a particle under the action of constant forces. Free motion of a body under gravity, including projectiles. Atwood's machine. Impulsive forces. Direct impact of smooth spheres. (*c*) *Statics.* Composition and resolution of co-planar forces. Theory of co-planar couples. Conditions of equilibrium of forces in one plane. Centre of mass. Friction. Machines. Application of the principle of work to machines. (*d*) *Hydrostatics.* Definitions of *solid*, *fluid*, *liquid*, *gas*. Viscosity. Measure of the pressure at a point of fluid. Law of equable transmission of pressure. Laws of variation of pressure in heavy liquids. Resultant pressure of a heavy liquid on a plane surface, including the centre of pressure of a plane surface. Principle of Archimedes Experimental determination of the densities of solids, liquids, and gases. Atmospheric pressure. The barometer. Boyle's Law. The siphon; pumps for liquids; air pumps; and the diving bell.

Questions may be set which involve the Trigonometry of Right-angled Triangles.

(10) A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may offer *himself for re-examination as often as may be necessary to satisfy this condition.*[1]

IV. (1) Attendance on any class shall not qualify for graduation unless the whole Preliminary Examination has been previously passed. *Any student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying class in such subject or subjects without having passed in the other subjects of the examination, provided always that* (a) *no candidate shall be allowed to present himself for examination in any subject qualifying for graduation until he has passed the whole Preliminary Examination; and* (b) *no student shall be admitted to a degree in Arts unless he has attended qualifying classes in the University granting the degree, or in another Scottish University, as provided by Section XIV. hereof, for three academic years after he has completed his Preliminary Examination.*[1]

(2) Attendance on a class in any language included in the Preliminary Examination shall not qualify for graduation, unless the candidate, before entering the class, has passed the Preliminary Examination in that subject, and on the higher standard where a double standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of the subsection immediately preceding shall have been satisfied.

(3) Attendance on a class in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.

(4) Attendance on a class of Mathematics or Natural Philosophy shall not qualify for graduation unless the candidate, before entering the class, has passed in Mathematics on the higher standard or on the intermediate standard.

V. (1) The Preliminary Examination shall be held at each University twice in each year, under such regulations as the Senatus, with the approval of the University Court, shall from time to time determine, and shall be conducted in writing.[2]

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[1] The words in italics are taken from a supplementary Ordinance No. 44, which was approved by Her Majesty in Council on 18th May, 1894, and came into force on 1st October, 1894. The ordinance provides that the alterations on Sections III. (10) and IV. (1) shall be held to have come into force on 1st October, 1892.

[2] For dates of Preliminary Examinations see Table on page 168.

# TABLE OF PRELIMINARY EXAMINATIONS FOR DEGREES IN ARTS, SCIENCE, AND MEDICINE, TO BE HELD DURING SESSION 1901-1902.

## I. ARTS AND SCIENCE.

| Fee. | Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.[1] | Subject. | Dates of Examinations and Hours at which the various Papers will be set. | |
|---|---|---|---|---|
| 10s. 6d.<br>10s. 6d. | 9th September or 7th March. | English (1st Paper), | Friday, 27th September, 9 to 11 a.m. | Friday, 28th March, 9 to 11 a.m. |
| | | Higher Latin (1st Paper), - - | Friday, 27th September, 12 noon to 2 p.m. | Friday, 28th March, 12 noon to 2 p.m. |
| | | Lower Latin, - | Friday, 27th September, 3 to 6 p.m. | Friday, 28th March, 3 to 6 p.m. |
| | | English (2nd Paper), | Saturday, 28th September, 9 to 11 a.m. | Saturday, 29th March, 9 to 11 a.m. |
| | | Intermediate and Higher Math. (1st Paper), - | Saturday, 28th September, 12 noon to 2 p.m. | Saturday, 29th March, 12 noon to 2 p.m. |
| | | Lower Greek, - | Saturday, 28th September, 3 to 6 p.m. | Saturday, 29th March, 3 to 6 p.m. |
| | | Higher Latin (2nd Paper), - - | Monday, 30th September, 9 to to 11 a.m. | Monday, 31st March, 9 to 11 a.m. |
| | | Intermediate and Higher Math. (2nd Paper), - | Monday, 30th September, 12 noon to 2 p.m. | Monday, 31st March, 12 noon to 2 p.m. |
| | | Lower Mathematics | Monday, 30th September, 3 to 6 p.m. | Monday, 31st March, 3 to 6 p.m. |
| | | Higher Greek (1st Paper), - - | Tuesday, 1st October, 9 to 11 a.m. | Tuesday, 1st April, 9 to 11 a.m. |
| | | French (1st Paper), | Tuesday, 1st October, 12 noon to 1.30 p.m. | Tuesday, 1st April, 12 noon to 1.30 p.m. |
| | | Dynamics, - - | Tuesday, 1st October, 3 to 6 p.m. | Tuesday, 1st April, 3 to 6 p.m. |
| | | Higher Greek (2nd Paper), - - | Wednesday, 2nd October, 9 to 11 a.m. | Wednesday, 2nd April, 9 to 11 a.m. |
| | | French (2nd Paper), | Wednesday, 2nd October, 12 noon to 2 p.m. | Wednesday, 2nd April, 12 noon to 2 p.m. |
| | | German (1st Paper), | Wednesday, 2nd October, 3 to 4.30 p.m. | Wednesday, 2nd April, 3 to 4.30 p.m. |
| | | German (2nd Paper), | Thursday, 3rd October, 9 to 11 a.m. | Thursday, 3rd April, 9 to 11 a.m. |
| | | Italian (1st Paper), | Thursday, 3rd October, 12 noon to 1.30 p.m. | Thursday, 3rd April, 12 noon to 1.30 p.m. |
| | | Italian (2nd Paper), | Thursday, 3rd October, 3 to 5 p.m. | Thursday, 3rd April, 3 to 5 p.m. |

## II. MEDICINE.

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| 10s. 6d.<br>10s. 6d. | 9th September or 7th March. | English, - - | Friday, 27th September, 9 a.m. to 12 noon. | Friday, 28th March, 9 a.m. to 12 noon. |
| | | Latin, - - - | Friday, 27th September, 3 to 6 p.m. | Friday, 28th March, 3 to 6 p.m. |
| | | Greek, - - - | Saturday, 28th September, 3 to 6 p.m. | Saturday, 29th March, 3 to 6 p.m. |
| | | Mathematics, - | Monday 30th September, 3 to 6 p.m. | Monday, 31st March, 3 to 6 p.m. |
| | | French, - - | Tuesday, 1st October, 12 noon to 3 p.m. | Tuesday, 1st April, 12 noon to 3 p.m. |
| | | German, - - | Wednesday, 2nd October, 3 to 6 p.m. | Wednesday, 2nd April, 3 to 6 p.m. |

(2) The Joint-Board of Examiners to be appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to accept the Higher Grade Leaving Certificate of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject; and to accept the Lower Grade Leaving Certificate of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics, provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by this ordinance.

Under this sub-section the Joint-Board of Examiners has resolved as follows:—For the Preliminary Examination in Arts and Science the Higher and Honours Grade Leaving Certificates of the Scotch Education Department in Latin, Greek, and Mathematics will be accepted as equivalent to the higher standard in each of these subjects, as prescribed by the Arts Ordinance, and the Lower Grade Certificate to the lower standard; the Higher and Honours Grade Leaving Certificate in English, in Modern Languages, and in Dynamics will be accepted as equivalent to the standard prescribed for each of these subjects by the Arts Ordinance.

(3) The Joint-Board of Examiners shall have power to determine what examinations, if any, other than those for the Leaving Certificates of the Scotch Education Department, may be accepted as equivalent to the Preliminary Examination in whole or in part, provided they are satisfied that such other examinations are in fact equivalent thereto.

Under this sub-section the Joint-Board has resolved as follows:—

(*a*) A Degree in Arts or in Science, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Arts or in Science, as the case may be.

(*b*) A Certificate of having passed in the Honours or First Division in English in the London University Matriculation Examination will be accepted as equivalent to English in the Arts and Science Preliminary Examination; and the Joint-Board also accepts, for the Preliminary Arts and Science Examination (1) London University Matriculation Mathematics as equivalent to Lower Mathematics, (2) London University Matriculation Mechanics as equivalent to Dynamics, and (3) London University Intermediate Mathematics as equivalent to Intermediate and Higher Mathematics.

(*c*) Oxford University Senior Local Examinations, if passed with distinction, will be accepted as exempting *pro tanto* in Higher Latin, Higher Greek, French, German, and Intermediate Mathematics, also in English, provided that in English the candidate has passed with distinction in division 1, and in division 3, or 4, or 5; a pass without distinction will be accepted *pro tanto* for Lower Latin, Lower Greek, and Lower Mathematics.

(*d*) Oxford University Higher Examination for Women will be accepted as exempting *pro tanto* for the Arts and Science in the case of Higher Latin, Higher Greek, English, and Lower Mathematics; and, if with distinction, for French and German, and Higher Mathematics.

(*e*) Cambridge University Local Examinations:—

1. Junior Locals. The pass with distinction will be accepted for Lower

Mathematics, provided the candidate has passed in Books I., II., and III. of Euclid, and in Quadratic Equations.

2. Senior Locals. The pass will be accepted as exempting *pro tanto* for Lower Latin and Lower Greek, and for Higher Mathematics; and, if with distinction, for English, Higher Latin, Higher Greek, and Modern Languages.

(*f*) Cambridge University Higher Local Examinations will be accepted *pro tanto*.

(*g*) Oxford and Cambridge Schools Examination Board. Lower Certificate will be accepted for Lower Mathematics, provided the candidate has passed in three books of Euclid, and as far as Quadratic Equations in Algebra.

Higher Certificate. The pass will be accepted for Lower Latin, Lower Greek, and Lower Mathematics, provided the latter includes Elementary and Additional Mathematics; if with distinction, will be accepted for Higher Latin, Higher Greek, French, German, and Higher Mathematics.

(*h*) Victoria University. The Preliminary Examination will be held as exempting from the Preliminary proper, but not from the examination required for admission to a graduating class in any language.

## ORDINARY DEGREE.

VI. Candidates for the ordinary degree of Master of Arts may follow the Curriculum and take their degree in the subjects hitherto recognized for graduation, as provided by the regulations[1] contained in Ordinances Nos. 12, 14, 18, and 69 of the Commissioners under the Universities (Scotland) Act, 1858, subject always to the preceding provisions of this ordinance; or they may vary the Curriculum for graduation under the regulations contained in the immediately succeeding sections.

VII. (1) Candidates shall attend full courses in at least seven subjects, and shall be examined on these subjects.

(2) Of these subjects four must be (*a*) Latin or Greek (not Modern Greek); (*b*) English or a Modern Language (*i.e.* French, German, Italian, or Spanish) or History; (*c*) Logic and Metaphysics, or Moral Philosophy; (*d*) Mathematics or Natural Philosophy.

(3) The remaining subjects may be selected by the candidate from the departments specified in Section IX. of this ordinance, under the following condition:—That the whole subjects taken shall include either (*a*) both Latin and Greek (not Modern Greek), or (*b*) both Logic and Moral Philosophy, or (*c*) any two of the following three subjects:—Mathematics, Natural Philosophy, and Chemistry.

VIII. (1) Each of the subjects must be studied in a full course of not less than one hundred meetings of the class on separate days, except in cases where the Senatus, with the approval of the University Court, shall have sanctioned, as qualifying for graduation, half courses of not less than fifty meetings on separate days; or where the Senatus, with the approval of the said Court, shall, having regard to the nature of the subject, sanction full courses of less than one hundred or of less than fifty meetings respectively.

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[1] These regulations are printed on pp. 173, 174 of the *Calendar* for 1900-1901.

Under this sub-section the Senate, with the approval of the University Court, has sanctioned, as qualifying for graduation, half courses in the following subjects, viz.:—Latin, Greek, Hebrew, Arabic, Mathematics, and Astronomy.

(2) Two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

Under this sub-section the Senate, with the approval of the University Court, has determined that a half course in any subject may not be combined with a half course in another subject, but only with a second half course in the same subject.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

Under this sub-section the Senate, with the approval of the University Court, has resolved that in Chemistry, Botany, and Zoology the course of study for a Degree in Arts, and the relative proportion of lectures and laboratory or practical work, shall be as follows:—

1. Chemistry.—A systematic course of one hundred meetings of the class and a practical course of two and a half months.

2. Botany.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

3. Zoology.—One hundred meetings on separate days, viz., fifty in systematic course and fifty in practical course.

IX. The departments of study for graduation in Arts in each University shall, if adequate instruction is provided, include the following subjects, with such additions or modifications in any University as may hereafter be made by ordinance of the University Court:—

1. *Language and Literature.*

Latin.
Greek.
English.
French.
German.
Italian.
Sanskrit.
Hebrew.
Arabic or Syriac.
Celtic.
Modern Greek.

2. *Mental Philosophy.*

Logic and Metaphysics.
Moral Philosophy.
Political Economy.
Education (Theory, History, and Art of).
Philosophy of Law.

3. *Science.*

Mathematics.
Natural Philosophy.
Astronomy.
Chemistry.
Zoology.
Botany.
Geology.

4. *History and Law.*

History.
Archæology and Art (History of).
Constitutional Law and History.
Roman Law.
Public Law.

X. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the ordinary degree of Master of Arts on payment of the fees required.

### Degree with Honours.

XI. (1) The degree of Master of Arts may be taken with Honours in any of the following Groups, in which Honours Classes shall have been established in at least two subjects:—

(*a*) Classics (*i.e.*, Latin and Greek, with optional subjects such as Comparative Philology, Ancient Philosophy, and Classical Archæology).
(*b*) Mental Philosophy.
(*c*) Mathematics and Natural Philosophy.
(*d*) Semitic Languages.
(*e*) Indian Languages.
(*f*) English (Language, Literature, and British History).[1]
(*g*) Modern Languages and Literature (*i.e.*, French, German, Italian, or Spanish).
(*h*) History.
(*i*) Economic Science [*i.e.*, Political Economy with either (*a*) Moral Philosophy or (*b*) History as supplementary Honours Subjects].[2]

(2) Every Candidate shall take up at least five subjects. Two of these subjects, under separate Professors or Lecturers, must be selected from the Candidate's Honours Group; and the five subjects shall include one from each of the Departments of Language and Literature, Mental Philosophy, and Science, set forth in Section IX. of this Ordinance.

(3) Every Candidate shall attend seven Classes, taking two Classes (one of which shall be an Honours Class) in each of his Honours subjects.[3]

(4) A Candidate who has obtained Honours in any one Group, may, before graduating,[4] present himself again for examination in a second Honours Group. In such a case, he shall not be required to attend more

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[1] The Senatus Academicus, in determining the courses to be attended within the Honours Group entitled "English (Language, Literature, and British History)," and the character of the examination specified in Section XI., sub-section 1 (*f*), shall regard English Literature as constituting the chief subject of the Group, the linguistic and historical subjects being regarded as subsidiary thereto.

[2] This Group of Honours was instituted by Ordinance No. 160, issued by the Universities Commission on 10th May, 1897, and approved by Her Majesty in Council on 19th May, 1898.

[3] The Senate, on 6th April, 1899, made the following regulation:—No Honours Class can be taken for graduation purposes either before or in the same session as an Ordinary Class in the same subject.

[4] Ordinance No. 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this sub-section, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

than two additional Classes, which shall be Honours Classes, in the second Group.

(5) The examination in the subjects comprised in the Candidate's Honours Group shall be of a higher standard than that required for the ordinary degree of Master of Arts. In his other subjects the standard shall be that required for the ordinary degree.

(6) The Senatus shall, subject to the provisions of Sections XVI. to XX. of this Ordinance, from time to time determine what subjects shall be comprised in each Group, what subjects may be taken in half courses, and in which Group they may be taken: Provided that no new Group shall be instituted except by Ordinance of the University Court.

(7) The provisions of Section VIII. of this Ordinance shall apply to Candidates for Honours; but, in their case, not fewer than fifty meetings, on separate days, extending over an entire winter session, shall constitute a full course for an Honours Class; and not fewer than twenty-five meetings on separate days, extending over half a winter session, or an entire summer session, shall constitute a half course.

XII. (1) Every Candidate shall include Latin, or Greek, either in his Honours Group or as one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

(2) Greek shall be compulsory for candidates for Honours in Mental Philosophy. *Candidates for Honours in Mental Philosophy who have included Latin, but not Greek, as one of the subjects in which the standard of examination is the same as that required for the ordinary degree of Master of Arts, shall be deemed to have satisfied the provisions of this sub-section, if, before they offer themselves for the Honours examination in Mental Philosophy, they shall have passed a special examination in translating into English, passages from the works of Greek philosophical authors,*[1] *including passages from the works of such authors not previously prescribed.*[2]

(3) Candidates for Honours in English, or Modern Languages and Literature, or History, *or Economic Science*[3] (Groups *f, g, h, i,* of Section XI. hereof), shall include within the whole subjects taken for their degree (*a*) Logic and Metaphysics or Moral Philosophy and (*b*) Mathematics or Natural Philosophy.

(4) Every candidate shall have obtained a certificate for his attendance on the class of Latin or Greek, under sub-section (1) or (2) of this section before he offers himself for examination in his Honours group of subjects.[4]

(5) Candidates for Honours in Economic Science (Group (*i*) of Section XI. hereof), who take Moral Philosophy as their supplementary Honours subject, may take a half course in the History of Civil Law and a half course in the Philosophy of Law, which, together, shall be deemed to constitute one of the subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.[5]

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[1] The following works have been prescribed, viz. (*a*) Plato's [illegible] of the *Republic*; (*b*) Aristotle's *Ethics*, Book I.

[2] The words in italics in this sub-section are taken from Ordinance No. [illegible]

[3] The words in italics are taken from Ordinance No. [illegible]

[4] This sub-section is taken from Ordinance No. 148.

[5] This sub-section is taken from Ordinance No. [illegible]. See second footnote on preceding page.

XIII. (1) The whole examination in the candidate's Honours Group must be taken at one time, and the whole examination necessary for graduation with Honours must be taken within five years from the date of the candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the extension.

(2) Candidates for Honours may be examined, at any time during their Curriculum, in the three subjects in which the standard of examination is that required for the ordinary degree of Master of Arts.

XIV. (1) A candidate who has passed the examinations necessary for the ordinary degree of Master of Arts, but who has not yet graduated,[1] may present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination, and shall not be required to attend further classes:—subject always to the provisions of Section XII. hereof.

(2) No one shall be allowed to present himself a second time as a candidate for the degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

(3) A candidate shall be held to have presented himself who has notified his name for Examination in accordance with the University regulations. But it shall be in the power of the Senatus to relax this rule on special cause shown; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XV. (1) In each Group there shall be three Grades of Honours, to be denominated respectively the First, Second, and Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the degree of Master of Arts with Honours a Diploma shall be given setting forth the subjects in which he has taken Honours.

## BOARDS OF STUDIES.

XVI. The Senatus of each University shall from time to time institute Boards of Studies corresponding as nearly as may be to the Departments of Study enumerated in Section IX. of this Ordinance.

XVII. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus shall appoint one of the Members of the Board to be Convener thereof.

XVIII. Before the end of each winter session each Professor and Lecturer in the said Departments of Study shall submit to the proper

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[1] Ordinance No. 168, which was issued by the Universities Commission on 24th June, 1897, and approved by Her Majesty in Council on 19th May, 1898, enacts that, notwithstanding the provisions of this sub-section, a candidate who has already graduated may present himself for examination in any Honours Group within five years from the date of his first matriculation after having passed the Preliminary Examination. If he be successful in obtaining Honours, he shall receive a special certificate stating the Honours Group in which he has presented himself, and the class he has obtained in the Group.

Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his class for the next academical year. As soon as such approval has been given, the syllabus shall be transmitted to the Faculty of Arts for its consideration. The syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

In addition to the syllabus of subjects specified in Section XVIII., the Professors, and in the case where a subject is taught by a Lecturer only, the Lecturer or Lecturers, shall submit to the proper Board of Studies a syllabus of the subjects and books to be prescribed for the examinations for the Ordinary Degree of Master of Arts in the next academical year, and for the Honours examinations in the academical year next but one.

XIX. (1) Before the end of each winter session each Board of Studies shall prepare a scheme defining for the academical year next but one following, the classes which shall be deemed to be Honours Classes, and the subjects and courses of reading for Honours in its department, and shall report the same to the Faculty of Arts for its consideration. The scheme, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

(2) Each Board shall in like manner make recommendations through the Faculty of Arts to the Senatus in regard to the half courses which may be sanctioned under the provisions of this ordinance, and the Lectures which may be given on special subjects.

XX. The Principal and the Dean of the Faculty of Arts shall be *ex officio* Members of each Board of Studies. The Convener shall preside, and, in his absence, each meeting shall appoint its own Chairman, and every Chairman shall have a deliberative, and, in cases of equality, a casting vote.

### General.

XXI. In the case of a foreign student whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint Board of Examiners may deem sufficient. In the case of a student whose native language is other than European, the Senatus may accept as an alternative to Latin or Greek any other classical language, such as Sanskrit or Arabic, subject always to the provisions of Section IV., Sub-section 3 hereof.

XXII. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XXIII. The examination in all the languages in the Curriculum shall, as far as possible, be on the same standard in examinations for the same degree, and shall in all cases test the candidate's knowledge of the history and literature of the several countries.

XXIV. A candidate for the degree of Master of Arts shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XXV. A student, who has given attendance at classes recognized as qualifying for graduation during one or more sessions in any one or more of the Scottish Universities, may complete his Curriculum by giving attendance during the remainder of his course in another Scottish University, and may proceed to a degree in the latter University in the same way, in all respects, as if the previous part of his Curriculum had been taken therein: Provided always that every such student shall be bound to produce, to the satisfaction of the Senatus of the latter University, certificates of his having passed the Preliminary Examination, and of his attendance at the former University or Universities, and shall be examined in all the subjects necessary for a degree of Master of Arts by the Examiners of the University in which he completes his Curriculum, and in which alone he shall be allowed to graduate; and that no such student shall be admitted to a degree in any University unless he has given attendance in such University during the last winter session of his Curriculum, and one other winter session or two summer sessions.

XXVI. A candidate for the degree of Master of Arts with Honours, who has failed to be placed in any class, may, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary degree of Master of Arts, receive from them a certificate of having passed in such subject, which shall count *pro tanto* as part of the examination required under the regulations for the ordinary degree of Master of Arts.

XXVII. The degree of Master of Arts shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XXVIII. A student who, previous to 1st October, 1892, commenced his course of study with a view to graduation in Arts in any of the Scottish Universities under the regulations[1] in force at the time in such University, may complete his course and become a candidate for the degree of Master of Arts, with or without Honours, in conformity with such regulations. And any such student who has passed the examination hitherto required for admission to a Curriculum of three sessions shall, if he desire to come under the regulations of this Ordinance, be exempted from the Preliminary Examination herein required.

XXIX. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

Attendance on classes in the Faculty of Arts in which the teaching is on the standard at present recognised for the classes hitherto known as Junior or Middle Classes, shall in no case qualify for graduation.

XXX. It shall be competent for the University Court in each University to discontinue the Junior Classes, or Middle Classes, where such exist, in Latin, Greek, and Mathematics, when, in the opinion of the Court, the provision for Secondary Education in schools throughout the country is sufficient to render such classes no longer necessary.

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[1] These regulations may be found at pp 173, 174 of the *University Calendar* for 1900-1901, and in the *Calendars* for preceding sessions.

## TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING TO THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.

The Examination Questions set in April, 1901, in the several Departments and Subjects will be found towards the end of the Calendar.

| IN | FOR ORDINARY DEGREE | FOR HONOURS |
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| LATIN | **October, 1901.**<br>VIRGIL, *Aeneid*, Book VI.<br>PROPERTIUS, Selections, Books I, II, III, IV.<br>HORACE, Satires, Book II.<br>TACITUS, *Annals*, IV.<br>CICERO, either (a) *In Verrem* IV (De Signis) or (b) *Epistles*, not less than thirty continuous pages of Watson's text.<br>ROMAN ANTIQUITIES (Ramsay), Caps. II to VIII inclusive, and Cap. XI; Roman History from B.C. 133 to B.C. 44 (How and Leigh's *History of Rome*).<br>Unseen translation.<br>NOTE.—Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions.<br>**April and October, 1902**<br>VIRGIL, *Aeneid*, Book XI.<br>HORACE, *Odes*, Books I, II, III, IV.<br>HORACE, *Satires*, Book I, or *Epistles* I, II, with *Ars Poetica*.<br>TACITUS, *Annals*, V, VI.<br>CICERO, either (a) *Phil.* I, II, or (b) letters not less than thirty consecutive pages of text.<br>ROMAN ANTIQUITIES (Ramsay), Caps. II to VIII inclusive, and Cap. XI; Roman History, from B.C. 133 to B.C. 44 (How and Leigh's *History of Rome*).<br>Unseen translation.<br>NOTE.—Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is required, so as to enable a student to explain and comment on the text, and explain allusions. | **October, 1901, and afterwards till further notice.**<br>VIRGIL, *Aeneid*, VII—XII.<br>HORACE, the Satires and Epistles with *Ars Poetica*.<br>And any two (or more) of the following combinations:<br>(a) LUCRETIUS, Books I, II (or III and IV to line 1052), with a play of PLAUTUS.<br>VERSE (b) JUVENAL (the whole excepting *Sat.* II, VI, and IX).<br>(c) PERSIUS, with Sellar's Selections from Martial, Books I-IV, or Books V-VIII.<br>(d) CATULLUS (Clarendon Press Selection) and PROPERTIUS (Ramsay's Selection).<br>CICERO, the *Philippic Orations*, I-VI, or any oration of Cicero, or any consecutive portion of Cicero's *Epistles* (Mahaffy's or Pritchard and Bernard's Selections) of at least equal length.<br>PROSE LIVY, I-III, or XXI-XXIII.<br>TACITUS, *Annals*, I-IV (in October, 1901).<br>TACITUS, *Annals*, IV-VI (in April and October, 1902).<br>TACITUS, *Annals*, XI-XIV (in April, 1903, and afterwards).<br>With Latin Composition, History, and Antiquities, etc. Passages also from books not prescribed will be set.<br>Candidates may profess any extra books they please. |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
|---|---|---|
| GREEK | **October, 1901.**<br>HOMER, *Iliad*, I, or *Odyssey*, XIV.<br>ARISTOPHANES, *Nubes*.<br>EURIPIDES, *Hercules Furens*.<br>DEMOSTHENES, *De Corona*, or THUCYDIDES, IV.<br>Holm's *History of Greece*, Vol. II, from Chapter XVI., and Vol. III.<br>Unseen Translations and Compositions, Greek Grammar and Literature.<br><br>**April and October, 1902.**<br>HOMER, *Odyssey*, IX and X.<br>SOPHOCLES, *Ajax*.<br>LYSIAS, *Select Orations* (Shuckburgh's Edition), or<br>HERODOTUS, III.<br>PLATO, *Apologia Socratis* and *Crito*.<br>Holm's *History of Greece*, Vol. II, III, Ch. 1—12.<br>Unseen Translations and Prose Compositions, Greek Grammar and Literature. | **April, 1899, and afterwards till further notice.**<br>HOMER, *Iliad*, I, VI, IX, XVI, XXII; and *Odyssey*, VI, X, XI, XIV, XXIII.<br>DRAMA. AESCHYLUS, *Agamemnon*, and SOPHOCLES, *Antigone*.<br>HISTORY. Either THUCYDIDES, I, or HERODOTUS, VII.<br>PHILOSOPHY. PLATO, either *Phaedo* or *Republic*, II, IV, and V, to page 466, omitting pages 458—461 (=Chap. I—XIII, omitting VIII and IX). ARISTOTLE, either *Poetics*, omitting Chap. XX and XXI, or *Politics*, I—II, 6 inclusive.<br>Two ADDITIONAL BOOKS to be chosen by the Candidate subject to the special approval of the Professor, which must be applied for at least Three Months before the Examination. By a Book is meant an amount of continuous Prose equal to a Book of Herodotus or Thucydides, or an amount of continuous Poetry equal to *two* plays.<br>Besides passages for translation from the above books, Questions will be set upon the Text, Interpretation, and Subject Matter. A pure and accurate English style in translation is considered of the highest importance.<br>Composition and Unseen Translation.<br>A general knowledge of History, Antiquities, Literature, and Grammar is also required. |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| ENGLISH LITERATURE | **October, 1901.**<br>A. For students of session 1899-1900.—(1) English Composition; (2) English Philology; (3) Elizabethan Drama, especially Marlowe's *Dr. Faustus* and *Edward II.*, Shakespeare's *Two Gentlemen of Verona*, *Richard II.*, *Much Ado about Nothing*, *As You Like It*, *Hamlet*, *Othello*, *King Lear*, *Macbeth*, *Coriolanus*, *The Tempest*; Jonson's *Alchemist*; Webster's *Duchess of Malfi*; Milton's *Samson Agonistes*; (4) Palgrave's *Golden Treasury of Songs and Lyrics* (First Series), Books III and IV.<br>B. For students of session 1900-1901.—(1) English Composition; (2) English Philology; (3) English Imaginative Literature, 1798-1832, especially the poems of Wordsworth, Coleridge, Scott, Byron, Shelley, Keats and the following Novels, *The Heart of Midlothian*, *The Bride of Lammermoor*, *Ivanhoe*; (4) (*a*) Shakespeare's *Tempest*; (*b*) Swift's *Gulliver's Travels*.<br>Students of earlier sessions may take either paper; students of sessions prior to 1899-1900 may omit Philology; but *no third paper will be set*.<br>**April and October, 1902.**<br>A. For students of session 1900-1901, the subjects of that session specified above under B.<br>B. For students of session 1901-1902, the subjects specified on p. [illegible]. Students of this session are advised to present themselves at one or other of the examinations in 1902, as the subjects for the Degree Examinations in 1903 will not include the History of Elizabethan Literature.<br>Students of earlier sessions may take either paper; students of sessions prior to 1899-1900 may omit Philology; but *no third paper will be set*. | In 1901, and until further notice, the subjects of examination in English[1] (Language, Literature, and British History) will be as follows:—<br>I. LANGUAGE.—Anglo-Saxon and Middle English, with Sweet's *Anglo-Saxon Reader* and Morris and Skeat's *Specimens of Early English*, Parts 1 and 2.<br>II. LITERATURE.—(1) General History of English Literature, either from 1350 to 1660, or from 1660 to 1832; (2) Shakespeare; (3) A Dissertation on some subject approved by the Professor; the dissertation to be sent in to the Clerk of Senate not less than a month before the first day of the examination at which the candidate presents himself.<br>III. HISTORY.—The History of Great Britain and Ireland, either (*a*) from 1714 to 1815, with special reference to the following works of Burke:—*Thoughts on the Present Discontents*; *Speeches on American Taxation*; *Reflections on the French Revolution*; or (*b*) from 1603 to 1714, with special reference to the following works:—Milton's *Reason of Church Government* and *Tenure of Kings and Magistrates*; Halifax's [illegible]; Dryden's [illegible] [illegible] and *Absalom*.<br>N.B.—Students should send to the Professor, in writing, at least two months before the examination, notice of the periods selected.<br>[1] See p. [illegible] and foot-note at foot of page. |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| FRENCH | **October, 1901, and April and October, 1902.**<br>I. Translations into and from French.<br>II. Questions in Grammar: The French Syntax. Text-book: A. Darmesteter, *Grammaire historique de la Langue française.*<br>III. Essay in French on the subjects of the Class Lectures. Books prescribed: Victor Hugo, *Préface de Cromwell*, *Hernani*, *Ruy Blas*; Racine, *Bérénice*; Molière, *L'Avare*; Michelet, *Pages Choisies* (Edition A. Colin, Paris).<br>IV. Oral Examination.—(1) Reading, translation, and explanation of a text studied in the class (see syllabus for work of class). (2) Conversation in French on the subjects of the Class Lectures. (3) History of France in the 19th century. | **October, 1901.**<br>I. Translation into and from French.<br>II. (*a*) Translation from Old French into Modern French; (*b*) Essay in English or in French on Historical Grammar.<br>III. Essay in French on one of the following:<br>(*a*) The subjects of the Class Lectures for session 1899-1900, *and* the General History of French Literature in the 19th century; or<br>(*b*) La vie et les œuvres des Moralistes français: Montaigne, Pascal, La Rochefoucauld, La Bruyère, Vauvenargues, *and* the General History of French Literature in the 19th century.<br>IV. Oral Examination.—Among other questions (see syllabus for work of class) one will be put on the History of French Civilisation in the 19th century.<br>**April and October, 1902.**<br>I. Translations from Old French and from English into Modern French. Translation into English.<br>II. Essay in English on Historical French Grammar.<br>III. and IV. Essays in French on French Literature in the 16th, 17th, and 19th centuries.<br>V. Oral Examination.—Among other questions (see syllabus for work of class) one will be put on the History of French Civilisation in the 19th century.<br>**April and October, 1903.**<br>I. Translations from Old French and from English into Modern French. Translations into English.<br>II. Essay in English on Historical French Grammar. Text-book: A. Darmesteter, *Grammaire historique de la Langue française.*<br>III. and IV. Essays in French on French Literature in the 17th, 18th, and 19th centuries. Works prescribed: *Molière's* Works, *Regnard's* Works, *Le Sage's* Comedies, *Destouches*, *Marivaux*. French poetry in the 19th century: *Victor Hugo*, *Lamartine*, *Alfred de Vigny*, *Alfred de Musset*, *Leconte de Lisle.*<br>V. Oral Examination—(1) Reading, Translation, and explanation of a text studied in the class. (2) Interrogations on French Literature (see III. and IV.). (3) History of French Civilisation in the 19th century. |

| IN | FOR ORDINARY DEGREE | FOR HONOURS. |
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| GERMAN | **October, 1901.**<br>(1) The Romantic School; (2) Higher New High German Grammar on an historical and comparative basis; (3) Translation into and from German; (4) A German Essay; (5) Tieck, *Der gestiefelte Kater*; C. Brentano, *Gockel, Hinkel und Gackeleia*; E. Brentano, [illegible]; Kleist, *Michael Kohlhaas*, *Prinz von Homburg*; Fouqué, *Undine*; E. Schulze, *Bezauberte Rose*; Hoffmann, *Meister Martin*; Immermann, *Oberhof*; Brandt, *A Grammar of the German Language*, Boston, 1888, pp. 1-304; Rudolf Haym, *Die romantische Schule*, Berlin, 1870.<br>**April and October, 1902.**<br>(1) Translation from and into German. (2) The Grammar Lectures. (3) The works read in the class; in addition: Die Leiden des jungen Werther. (4) General outlines of German Literature to year 1800, with special period (1748-1832); Essay in German. (5) Oral examination. | **October, 1901.**<br>I. Paper. The modern German written language. German Grammar. Translation from English into German, from German into English. An Essay in German.<br>II. Paper. General History of German Literature from the earliest times to the present (in German). Sixteenth century German; Historical German Grammar.<br>III. Paper. The History of the Faust Legend.<br>IV. Paper. One of the following subjects: (a) The Old High German Language; (b) The German Poetry of Chivalry; (c) The German Drama; (d) Schiller; (e) [illegible]; (f) [illegible] Germany.<br>Books recommended:—Braune, *A Grammar of the Gothic Language*, Braune, *Althochdeutsche Grammatik*, and *Althochdeutsches Lesebuch*; Max Koch, *Geschichte der deutschen Literatur*; Kuno Fischer, Goethe's *Faust*; *Volksbuch Faust of 1587*; Goethe's *Faust*; Klinger's *Faust*; Lenau's *Faust*; Brahm, *Schiller's Leben*.<br>**April and October, 1902.**<br>I. Paper. The modern German written language. German Grammar. Translation from English into German, from German into English. An Essay in German.<br>II. Paper. General History of German Literature from the earliest times to the present (in German); Historical German Grammar.<br>III. Paper. Die deutsche Heldensage.<br>IV. Paper. One of the following subjects: (a) The Gothic Language; (b) The Romantic School; (c) Goethe; (d) Lessing; (e) The Faust Legend; (f) German Literature of the Sixteenth Century.<br>Books recommended:—Braune, *A Grammar of the Gothic Language*, Boston, 1883; Vogt und Koch, *Geschichte der deutschen Literatur*, Leipzig, 1897; W. Golther, *Deutsche Heldensage*; Jiriczek, *Deutsche Heldensage*; R. Koegel, *Geschichte der deutschen Literatur bis zum Ausgange des Mittelalters*; Braune, *Gotische Grammatik*; Haym, *Die romantische Schule*; R. M. Meyer, *Goethe*; Erich Schmidt, *Lessing*; Witkowski, *Goethes Faust*.<br>**April and October, 1903.**<br>I. Translation from and into German.<br>II. Sixteenth century German; Historical German Grammar.<br>III. Middle High German or Gothic or Old High German.<br>IV. General History of German Literature to year 1800, with special period (1748-1832); Essay in German.<br>V. Oral examination. |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| HEBREW | **October, 1901.**<br>The Book of Judges.<br>Psalms XLII—LXXII.<br>The Book of Proverbs, Chapters X—XXII.<br>The History of Israel, from the schism of the kingdom to the downfall of Jerusalem.<br>Hebrew Archæology : History of the Masoretic Text (Weir's *Short History*).<br>Introduction to the Books prescribed.<br>Unseen translation ; unpointed text to be pointed and translated ; translation from English into Hebrew ; and Grammar, Syntax, and Accents.<br>**April and October, 1902.**<br>The Books of Judges and Ruth.<br>Psalms LXXIII—LXXXIX.<br>The Book of Lamentations.<br>The History of Israel, from the schism of the kingdom to the downfall of Jerusalem.<br>Hebrew Archæology ; History of the Masoretic Text (Weir's *Short History*).<br>Introduction to the books prescribed.<br>Unseen translation ; unpointed text to be pointed and translated ; translation from English into Hebrew ; and Grammar, Syntax, and Accents. | |

| IN | FOR ORDINARY DEGREE | FOR HONOURS |
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| ARABIC | Qurán.—The Suras contained in Nallino's *Chrestomathia Korani Arabica.*<br>The Prose Extracts contained in Brünnow's *Chrestomathie aus Arabischen Prosaschriftstellern.*<br>One at least of the Seven Moallaqât.<br>History and Literature.—Sale's Preliminary Dissertation on the Koran. History of the Arabs and their literature to the fall of Baghdad.<br>Unseen translation; unpointed text to be pointed; translation from English into Arabic; Grammar, Syntax and Prosody. | |
| LOGIC | The Class Lectures. Berkeley's *Principles of Human Knowledge* (in Fraser's *Selections from Berkeley*). | **October, 1900, and until further notice.**<br>(a) Logic and Psychology. The subjects of the Class Lectures, Ordinary and Advanced. Candidates will be expected to have read some of the latest modern treatises on Logic, such as Mill, Venn, or Sigwart.<br>(b) Metaphysics: (1) Kant's *Kritik d. Rein. Vernunft.* (2) History of Greek Philosophy either (a) up to Aristotle, or (b) Aristotle and the Post Aristotelian systems (exclusive of Neo-Platonism).<br>(c) Candidates may, in addition, be expected to offer for examination some Greek author, period, or subject, to be approved by the Professor. |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| MORAL PHILOSOPHY | The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; and the *Republic* of Plato (translated by Davies and Vaughan). | Candidates for Honours will be examined in:—(1) The Professor's Lectures; (2) Aristotle's *Ethics* (omitting Books VII and VIII), Aristotle's *Politics*, Books I—IV, and, in connection therewith, the History of Ethical Thought in Greece previous to Aristotle; (3) Spinoza's *Ethics;* (4) The Ethical Theory of Kant, together with Caird's *Philosophy of Kant*, Books II, III, IV, and Green's Prolegomena to Ethics; (5) the general history of Modern Hedonism.<br>Candidates are, in addition, expected to offer for examination some book, subject, author, or period; or to submit a thesis on a subject in Philosophy, *either* in Logic *or* in Moral Philosophy, such thesis to be lodged by the candidate when entering his name for examination. |
| POLITICAL ECONOMY | The Lectures and Text-books of the session in which the student has attended the class. | In 1902 and until further notice the subjects of examination for Honours in ECONOMIC SCIENCE will be as follows:—<br>I. **Political Economy.** The subjects of the Class Lectures, Ordinary and Advanced. Prescribed books: Aristotle, *Politics*; Bosanquet, *Philosophical Theory of the State*; Marshall, *Principles of Economics;* Bastable, *Public Finance;* Seligman, *Essays in Taxation;* Bagehot, *Lombard Street;* Keynes, *Scope and Method of Political Economy;* Cunningham and Macarthur, *Outlines of England's Industrial History*; Ingram, *History of Political Economy*; Nicholson, *Money and Monetary Problems;* Goschen, *Foreign Exchanges;* Sidgwick, *Principles*, Book III; *Memoranda on Classification and Incidence of Imperial and Local Taxes* (Blue-book), pp. 66—175. Candidates will be required to submit a thesis on some subject to be approved by the Professor.<br>II. *Either* (*a*) **Moral Philosophy**—see the regulations for Honours in Moral Philosophy *ut supra.*<br>*Or* (*b*) **History.** British History to 1880, with especial reference to the economic condition of England. Prescribed books: *Walter of Henley* (ed. E. Lamond); *The Libell of English Polycye* (Political Songs, vol. ii. in Rolls Series); *The Discourse of the Commonwealth of this Realm of England* (ed. E. Lamond); Mun's *England's Treasure by Foreign Trade* (ed. Ashley); Hely Hutchinson's *Commercial Restraints of Ireland* (ed. Carroll); Petty's *Treatise of Taxes and Contributions* (ed. Hull). |
| HISTORY OF CIVIL LAW | The Class Lectures. (See page 117). | |
| PHILOSOPHY OF LAW | Holland's *Jurisprudence* (any edition after the fourth). Maine's *Ancient Law.* Miller's *Philosophy of Law.* | |

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| EDUCATION | **October, 1901, and April 1902.**<br>Theory, Art, and History of Education, as treated in the lectures; all the books used for Class work (see p. [illegible]) must be produced; and, in addition, Rosenkranz *[illegible]* ([illegible] Translation, International Education Series). | |
| MATHEMATICS | Euclid, First Six Books and Book XI. 1—21.<br>Analytical Geometry of straight line and circle.<br>Algebra, including Quadratic Equations, Progressions, and Binomial, Exponential, and Logarithmic Theorems.<br>Plane Trigonometry, including the Solution of Triangles by the aid of Logarithmic tables. | *Second and Third Class.*—In addition, Plane Trigonometry; Analytical and Geometrical Conics, and Differential and Integral Calculus so far as treated in the Intermediate Honours Mathematical Class.<br>*First Class.*—In addition, Spherical Trigonometry, Solid Geometry, Differential and Integral Calculus, Differential Equations. |
| NATURAL PHILOSOPHY | The subjects contained in the class course—Dynamics, Acoustics, Heat, Light, Magnetism, and Electricity. | Higher Dynamics (Statics and Kinetics of a particle and of a rigid body). The special subjects treated in the Higher Natural Philosophy Class, with one of the following:—Hydrodynamics, Conduction of Heat, Magnetism and Electricity, Light, Sound, Elasticity. |
| ASTRONOMY | The Professor's Lectures during the session or sessions in which the student has attended the class, and Popular Astronomy. | |
| CHEMISTRY | General principles; Inorganic and Elements of Organic Chemistry.<br>Text-books: Roscoe's Elementary Chemistry; Newth's *Inorganic Chemistry*; Armstrong's *Organic Chemistry*; Remsen's *Organic Chemistry*; Clowes' *Practical Chemistry*; Gattermann's *Practical Methods of Organic Chemistry*; E. Lloyd Whiteley's *Organic Chemistry*. | |
| ZOOLOGY | Text-books by Claus; Parker & Haswell. | |
| BOTANY | The general principles of the Science of Botany, including External Morphology, Anatomy and Physiology; also the chief characters of the Natural Orders of Phanerogams represented in the British Flora, and of the leading Types of Thallophyta, Bryophyta, and Pteridophyta. | |

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[1] The examination in this and the two preceding subjects will be oral and practical, as well as by written papers.

| IN | FOR ORDINARY DEGREE. | FOR HONOURS. |
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| HISTORY | The Outlines of the History of England and Scotland to 1880. | For October, 1901, and April, 1902:—(1) The Outlines of British History to 1837. This subject includes the History of England and Scotland, and the History of Ireland from the reign of Henry II. (2) The General History of the Constitution and Constitutional Law. Books recommended: Stubbs, *Constitutional History;* Hallam, *Constitutional History;* Erskine May, *Constitutional History;* Anson, *Law and Custom of the Constitution*; Dicey, *Law of the Constitution;* Bagehot, *The English Constitution.* (3) The Growth of the English Constitution to the close of the reign of Edward I. Prescribed books: Stubbs, *Constitutional History;* Stubbs, *Select Charters;* Pollock and Maitland, *History of English Law.* (4) European History from 1714 to 1815. Prescribed books: *Recueil des Instructions données aux Ambassadeurs de France, Autriche* (ed. by A. Sorel) from p. 151; ***Mémoires** de Frédéric II.*; *Diaries and Correspondence of the first Earl of Malmesbury.* *N.B.*—In (1) and (4) questions will be set in Historical Geography.<br>In October, 1902, and until further notice, Candidates will be examined in the following subjects:—(1) British History to 1880. This subject includes the History of England and Scotland, the History of Ireland from the reign of Henry II., and the History of the Colonial Empire of Great Britain. (2) The General History of the English Constitution. (3) The Constitutional Law and Custom of Great Britain, France, and the United States of America. Prescribed books: Dicey, *Law of the Constitution;* Anson, *Law and Custom of the Constitution;* Bodley, *France;* Bryce, *American Commonwealth.* (4) The growth of the English Constitution to the close of the reign of Edward I. Prescribed book: Stubbs, *Select Charters.* (5) One of the following periods of Foreign History at the choice of the Candidate (*a*) 800-1272, (*b*) 1453-1648, (*c*) 1740-1878.<br>Candidates may, *in addition*, submit through the Professor a thesis on some subject of British or Foreign History to be approved by the Board of Examiners for Honours in History. This should, as far as possible, be based on the leading original authorities on the subject of which it treats. Such thesis, when offered, will be considered as forming an integral part of the examination. |
| CONSTITUTIONAL LAW AND HISTORY | The Class Lectures and Taswell-Langmead's *English Constitutional History;* Dicey's *Law of the Constitution;* Anson's *Law and Custom of the Constitution*, vol. i. | |
| ROMAN LAW | Institutes of Justinian (ed. Moyle or Sandars), and the Class Lectures.<br>*Note.*—Candidates who aim at a degree in Law are recommended, in addition to the above, to profess *Dig.*, Lib. XVIII, Tit. I. **The title is translated and annotated by Mackintosh—Roman Law of Sale.** | |

## DEGREE OF M.A. WITH HONOURS.

Students who propose to graduate with Honours may with advantage consult the following synopsis of the conditions attaching to the several Groups of Honours:—

I. The Degree of M.A. with Honours may be taken at present in any of the following *Groups*, there being two subjects in each Group:

(*a*) Classics, viz. (1) Latin.
  (2) Greek.

(*b*) Mental Philosophy, viz. (1) Logic.
  (2) Moral Philosophy.

(*c*) Mathematics and Natural Philosophy, viz. (1) Mathematics.
  (2) Natural Philosophy.

(*d*) Semitic Languages.

(*e*) Indian Languages.

(*f*) English, viz. (1) English Language and Literature.
  (2) British History.

(*g*) Modern Languages, viz. (1) French.
  (2) German.

(*h*) History, viz. (1) History.
  (2) Constitutional Law and History.

(*i*) Economic Science, viz. (1) Political Economy.
  (2) Moral Philosophy, or History.

II. *Conditions of Examination*:

(1) The whole examinations necessary for graduation with Honours must be taken within five years from the date of the Candidate's first matriculation after having passed the Preliminary Examination, unless that period shall be extended by the Senatus on special cause shown.

(2) The Candidate is examined in at least five subjects. (*a*) *Two* of these are his two *Honours* subjects (e.g. Logic and Moral Philosophy, if his group is Mental Philosophy). The examinations in the Honours subjects must be taken at one time, and not until the Candidate has obtained his certificate of attendance on the ordinary class of Latin or Greek. (*b*) In the other *three* subjects the examination is that for the *Ordinary* degree. The Candidate may offer himself for examination in them, together or apart, at any time or times during his curriculum, after he has attended the appropriate classes.

(3) Under the restrictions noted below (see (4) and III. (2)), the Candidate may choose his three Ordinary degree subjects from the following list:

Latin.
Greek.
English.
French.
German.
Hebrew.
Arabic.
Logic and Metaphysics.
Moral Philosophy.
Political Economy.
Education (Theory, History, and Art of).
Mathematics.
Natural Philosophy.
Astronomy.
Chemistry.
Zoology.
Botany.
History.
Constitutional Law and History.
Civil, *i.e.* Roman Law.

(4) Candidates in the various Honours Groups are restricted in their choice among the Ordinary Degree subjects to the following extent. They must choose

In Group (*a*) *Classics*: one subject from each of the following sets of Ordinary classes:

- (i) Logic, Moral Philosophy, Political Economy, Education.
- (ii) Mathematics, Natural Philosophy, Chemistry, Zoology, Botany, Astronomy.
- (iii) Any subject for the Degree except the two already chosen.

In Group (*b*) *Mental Philosophy*: one subject from each of the following sets of Ordinary classes:

- (i) Latin, Greek. If the Greek class has not been attended and the examination for Ordinary Degree on Greek passed, the student who chooses Latin as his subject in this set is required to pass a special examination in Greek, and this special examination he must pass before he offers himself for the Honours examination. [See the paragraph to which the second footnote on p. 173 refers.]
- (ii) Mathematics, Natural Philosophy, Chemistry, Zoology, Botany, Astronomy.
- (iii) Any subject for the Degree except the two already chosen.

In Group (*c*) *Mathematics and Natural Philosophy*: one subject from each of the following sets of Ordinary classes:

- (i) Latin, Greek.
- (ii) Logic, Moral Philosophy, Political Economy, Education.
- (iii) Any subject for the Degree except the two already chosen.

In Groups (*f*) *English*, (*g*) *Modern Languages*, (*h*) *History*, one subject from each of the following sets of Ordinary classes:

- (i) Latin, Greek.
- (ii) Logic, Moral Philosophy.
- (iii) Mathematics, Natural Philosophy.

In Group (*i*) *Economic Science*: if History be the second subject chosen, one subject from each of the following sets of Ordinary classes:

- (i) Latin, Greek.
- (ii) Logic, Moral Philosophy.
- (iii) Mathematics, Natural Philosophy.

If Moral Philosophy be the second subject chosen, one subject from each of the following sets of Ordinary classes:

(i) Latin, Greek.

(ii) Mathematics, Natural Philosophy.

(iii) A half course in the History of Civil Law combined with a half course in Philosophy of Law, or any subject for the Degree except those already chosen. [See III. (2) below.]

III. *Attendance.*

(1) The Candidate must attend two classes, one of which shall be an Honours class, in each of his two *Honours* subjects, these two subjects being taught by separate Professors or Lecturers; and he cannot take an Honours class in a subject before, or in the same session as, an Ordinary class in that subject. All Honours classes meet on not less than fifty days in a session.

(2) In order to qualify for his Ordinary degree examinations in the other three subjects, the candidate must attend classes in them. Most of the classes for the Ordinary degree meet on not less than one hundred days in a session. In place of such a full course, two half courses, each involving not less than fifty meetings, may be taken. The subjects in which half courses may be taken are: Latin, Greek, Hebrew, Arabic, Mathematics, Astronomy. A half course in any of these subjects can be combined only with a second half course in the same subject. There is also a half course in Philosophy of Law and in the History of Civil Law, and these two can be combined to form one subject, but only by those who select Moral Philosophy in the Group of Economic Science.

IV. *Additional Regulations* with regard to Degree of M.A. with Honours.

(1) A candidate who has obtained Honours in any one Group may, whether he has graduated or not, present himself again for examination in a second Honours Group. He is required to attend two additional classes, which shall be Honours Classes, in this second Group.

(2) A Candidate who has passed the seven examinations necessary for the ordinary Degree of Master of Arts, whether he has graduated or not, may, without attending further classes, present himself for Honours within five years from the date of his first matriculation after having passed the Preliminary Examination; but he must satisfy the requirements as to subjects set out above under II. (4).

(3) No one shall be allowed to present himself a second time as a candidate for the Degree of Master of Arts with Honours, who, upon examination, has failed to obtain Honours.

## TABLE OF EXAMINATIONS IN THE SUBJECTS FOR THE DEGREE OF M.A., TO BE HELD DURING SESSION 1901-2.

| FEE. | Names to be given in and Fees paid to Assistant-Clerk (Matriculation[1] Office). Date. | Subjects of Examination. | Dates of Written Examinations and Hours at which the different Papers will be set. | |
|---|---|---|---|---|
| | | | September—October, 1901. | March—April, 1902. |
| £1 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID. | 12th Sept. or 13th March | Astronomy, | Saturday, 28th Sept., 9—12 noon. | Saturday, 29th March, 9—12 noon. |
| | | Zoology, | Monday, 30th Sept., 10—11.30 a.m. | Monday, 31st March, 10—11.30 a.m. |
| | | Botany, | Do., do., 12.30—2. p.m. | Do., do., 12.30—2. p.m. |
| | | Chemistry, | Do., do., 3—4.30 p.m. | Do., do., 3—4.30 p.m. |
| | 18th Sept. or 11th March | Education, | Friday, 27th Sept., 9—12 and 3—6 p.m. | Friday, 28th March, 9—12 and 3—6 p.m. |
| | | History, | Sat., 28th Sept., 9—12 and 3—6 p.m. | Saturday, 29th March, 9—12 and 3—6 p.m. |
| | | Constitutional Law and History, | Monday, 30th Sept., 9—12 noon. | Monday, 31st March, 9—12 noon. |
| | | Roman Law, | Do., do., 2—5 p.m. | Do., do., 2—5 p.m. |
| | | French (1st Paper), | Tuesday, 1st Oct., 12—3 p.m. | Tuesday, 1st April, 12—3 p.m. |
| | | Do. (2nd Paper), | Wednesday, 2nd Oct., 12—3 p.m. | Wednesday, 2nd April, 12—3 p.m. |
| | | German (1st Paper), | Do., do., 3—6 p.m. | Do., do., 3—6 p.m. |
| | | Political Economy, | Do., do., 6—9 p.m. | Do., do., 6—9 p.m. |
| | | German (2nd Paper), | Thursday, 3rd Oct., 9—12 noon. | Thursday, 3rd April, 9—12 noon. |
| | | Mathematics, | Friday, 4th Oct., 10—1 and 2—5 p.m. | Friday, 11th April, 10—1 and 2—5 p.m. |
| | | Natural Philosophy, | Saturday, 5th Oct., 10—1 and 2—5 p.m. | Saturday, 12th April, 10—1 and 2—5 p.m. |
| | | Latin, | Monday, 7th Oct., 10—12, 1—3, and 4—6 p.m. | Monday, 7th April, 10—12, 1—3, and 4—6 p.m. |
| | | Greek, | Tuesday, 8th Oct., 10—12, 1—3, and 4—6 p.m. | Tuesday, 8th April, 10—12, 1—3, and 4—6 p.m. |
| | | Latin and Greek, | Thursday, 10th Oct., and following days at 11 a.m. (Orals.) | Thursday, 10th April, and following days at 11 a.m. (Orals.) |
| | | Classics. Mental Philosophy, | Friday, 11th Oct., 2—6 p.m. (Honours.) | Saturday, 5th April, 2—6 p.m. (Honours.) |
| | | Logic, | Wed., 9th Oct., 10—1 & (Hon.) 2—5 p.m. | Wed., 9th April, 10—1 & (Hon.) 2—5 p.m. |
| | | Moral Philosophy, | Thur., 10th Oct., 10—1 & (Hon.) 2—5 p.m. | Thur., 10th April, 10—1 & (Hon.) 2—5 p.m. |
| | | English Literature, | Friday, 11th Oct., 10—1 p.m. | Saturday, 5th April, 10—1 p.m. |
| | | Hebrew, | Saturday, 12th Oct., 10—1 & 2—5 p.m. | Friday, 4th April, 10—1 and 2—5 p.m. |

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[1] When names are not given in, and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is

## 2.—GRADUATION IN SCIENCE.

The Scottish University Commissioners (1889) have ordained that two Degrees in Science may be conferred by each of the Universities of Scotland—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These degrees may be given in Pure Science and in Applied Science.

### Degrees in Pure Science.

The following are the provisions of Ordinances No. 12[1] and No. 42 as they apply to this University:—

I. Two Degrees in Science may be conferred by the University of Glasgow—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.).

II. Every candidate for the Degree of Bachelor of Science must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by that ordinance (see pp. 163-170, 175) are applicable in all respects to candidates for the Degree of Bachelor of Science, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard;[2] (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, exempts from the Preliminary Examination.

III. (1) Candidates for the Degree of Bachelor of Science must, in the course of not less than three academical years, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. below.

(2) Three of these courses must be in subjects prescribed for the First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

IV. (1) Four of the seven courses must be taken in this University.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science: Provided that the fees for attendance at an approved Institution or under a recognised teacher in

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[1] This ordinance was printed in full in the *University Calendar* for 1895-96, pp. 485-488, and the modifications made by Ordinance No. 42 were indicated, by means of square brackets, in the *University Calendar* for 1904-05.

[2] A student who, having passed the Arts Preliminary Examination in accordance with the provisions of Ordinance No. 11, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, shall not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science under the provisions of Ordinance No. 12. See Ordinance No. 44, Section V. Candidates for the Degree of B.Sc. in Pure Science may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary. Notwithstanding these provisions, candidates shall not be entitled to profess at the Final Science Examination Mathematics, Natural Philosophy, or Astronomy, unless they have passed the Preliminary Examination in Mathematics on the higher standard. See Ordinance No. 155, Section I.

Glasgow shall not be less than the fees exigible for the corresponding courses in the University.

V. All candidates, not matriculated students of the University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Glasgow, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; but two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of each Professor and Lecturer annually at the end of each winter session to submit to the Board of Studies a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Board of Studies shall transmit the schemes to the Faculty of Science, who shall submit them to the Senate with such observations as they may think fit to make thereon. The Senatus transmits such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

VIII. (1) There is a First Science Examination[1] in the three following subjects—viz., (1) Mathematics or Biology (*i.e.* Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects is the same as the examination in these subjects for the Ordinary Degree of Master of Arts.

(3) Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.

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[1] This examination includes practical work in the subjects admitting of, or requiring it.

IX. (1) There is a Final Science Examination[1] on a higher standard in any three or more of the following subjects :—

1. Mathematics.
2. Natural Philosophy.
3. Astronomy.
4. Chemistry.
5. Human Anatomy, including Anthropology.
6. Physiology.
7. Geology, including Mineralogy.[2]
8. Zoology, including Comparative Anatomy.
9. Botany, including Vegetable Physiology.

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the Degree of Master of Arts with Honours, where the subjects are different; and where the subjects are the same the examination shall be identical.

(3) A subject already taken under the preceding section for the First Science Examination may be taken also under this section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

The Senate, with the approval of the University Court, has framed the following regulation for the Final Science Examination, viz.: A candidate shall be allowed the option of presenting himself in any one subject for the Final Science Examination, or in two, or in three or more at one time, provided always that if the candidate select Mathematics and Natural Philosophy, these subjects shall be taken together in one examination, in accordance with Ordinance No. 11, Section XIII. (1) and Ordinance No. 12, Section IX. (2).

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him: and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

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[1] This examination includes practical work in the subjects admitting of, or requiring it.

[2] The course in Geology, including Mineralogy, consists of one hundred meetings, namely, fifty systematic and fifty practical.

### DEGREE IN APPLIED SCIENCE.

XIII. Degrees in Applied Science may be instituted and conferred according to regulations to be laid down in special Ordinances applicable to each University by the Commissioners under the Universities (Scotland) Act, 1889; or after the expiry of their powers by the University Court in each University.

XIV. The provisions of Sections II. to VIII. of this Ordinance inclusive, in so far as they relate to the Preliminary and First Science Examinations, shall be applicable in all respects to degrees in Applied Science instituted as aforesaid, except where special provision is made to the contrary in the special Ordinances aforesaid.

### DOCTORATE OF SCIENCE.

XV. Graduates of any University who have held the degree of Bachelor of Science for a term of five years, may offer themselves for the degree of Doctor of Science in the same University.

XVI. A candidate for the Degree of Doctor of Science shall present a thesis or a published memoir or work[1] to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination as may from time to time be determined. [This examination is to be conducted by Examiners appointed under Ordinance No. 62, Section X. See page 208.

The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done and the thesis composed by himself.

### GENERAL.

XVII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in any of the Scottish Universities under regulations in force at the time in such University, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,[2] or with the provisions of this ordinance, may become a candidate for the Degree of Bachelor of Science.

XVIII. The Degrees of Bachelor and Doctor of Science shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIX. This ordinance came into force on 1st October, 1892.

For Dates of Examinations, see Table on page 203.

### Degrees in Science in Engineering.

The following are the provisions of Ordinance No. 23, Glasgow No. 2:—

I. Two Degrees in Science in Engineering may be conferred by the

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[1] The Thesis must be lodged on or before 12th January.

[2] Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

University of Glasgow, viz., Bachelor of Science in Engineering[1] and Doctor of Science in Engineering.

II. Every candidate for the degree of Bachelor of Science in Engineering must pass the Preliminary Examination prescribed by Ordinance No. 11 (Regulations for degrees in Arts); and the conditions with respect thereto imposed by the said ordinance (see pp. 165–170, 175) are applicable in all respects to this ordinance except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics must be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, exempts from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. Candidates must in the course of not less than three academical years attend at least the nine courses of instruction prescribed under Section IX. below.

IV. (1) Five of the nine courses must be taken in this University. One of these courses must be a course in Engineering.

(2) Four may be taken in other Universities or institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering: Provided that the fees for attendance at an approved institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

V. It is competent to the University Court to admit to the examinations for the degree of Bachelor of Science in Engineering, and to graduation, any candidate who presents the diploma of the Glasgow and West of Scotland Technical College, and who has passed the Preliminary Examination hereinbefore appointed: Provided that before such candidate shall be admitted to the Final Science Examination prescribed under Section XI. hereof:—

(1) He shall, after having received the said diploma, have attended in this University at least three full courses, during at least one academical year; and of these courses one at least shall be in Engineering.

(2) He shall, after having received the said diploma, have attended in this University such courses as will, along with the classes taken at the said College for the said diploma, be equivalent to the whole courses for the curriculum hereinafter instituted.

VI. The University Court may make regulations to enable candidates not matriculated students of the University availing themselves of the permission to attend Lectures at approved institutions or by recognised teachers in Glasgow, to obtain on payment of a fee not exceeding in amount the Matriculation Fee paid by the students of the University, a right to the use of the Library of the University.

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[1] By order of the Council of the Institution of Civil Engineers the possession of the Degree of B.Sc. in Engineering exempts candidates applying for election into the Institution as Associate Members from passing the examination prescribed by the Council.

VII. (1) The Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; and two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VIII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow.

IX. The subjects of study shall be as follows:—

1. Mathematics, including Analytical Geometry, and Differential and Integral Calculus.
2. Natural Philosophy, including Applied Higher Mathematics.
3. Chemistry.
4. A course in the Physical Laboratory, or in the Chemical Laboratory, or of Practical Chemistry.

and either:—

5, 6. Two courses in Engineering, including Laboratory Practice.
7, 8. Two courses of practical work in Drawing.
9. A course in one of the following:—
    (*a*) Astronomy and Geodesy.
    (*b*) Geology and Mineralogy.
    (*c*) Naval Architecture.
    (*d*) Engineering Laboratory, Mechanical or Electrical (Special Course).
    (*e*) Electricity—Pure and Applied.

or:—

5, 6. Two courses in Naval Architecture with Marine Engineering.
7, 8. Two courses of practical work in Ship and Engineering Drawing.
9. A course in Engineering, including Laboratory Practice.

Provided that during the three years immediately subsequent to the date on which this ordinance shall come into force, the courses in Engineering herein prescribed shall not necessarily include Laboratory Practice.

X. (1) There shall be a First Science Examination[1] in subjects 1, 2, 3, and 4 of the section immediately preceding.

(2) The examination in (1) Mathematics and (2) Natural Philosophy shall include the higher branches of Mathematics specified under Mathematics and the higher Mathematics included under Natural Philosophy in the section immediately preceding[1]; but it shall be optional to candidates to pass the same examination in either or both of these subjects as that required for the Ordinary Degree of Master of Arts: Provided that in that case they shall be required before graduation to pass a subsequent examination in the remainder of the subject or subjects.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

XI. (1) There shall be a Final Science Examination[2] in subjects 5, 6, 7, 8, and 9 of Section IX. hereof, and, if required, in the higher branches of Mathematics as provided in Section X., Sub-section 2 hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the First Science Examination and have attended the required courses in the subject or subjects professed: Provided that for this purpose subjects 5, 6, 7, and 8, specified in Section IX. hereof, shall be deemed one subject.

XII. A candidate for the degree of Bachelor of Science in Engineering shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XIII. It is competent to the Examiners for the degree of Bachelor of Science in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIV. It is competent to the University Court of the University of Glasgow to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable by the development of Engineering Science, or in consequence of further provisions having been made within or without the University for the study of any special branch of the said Science: Provided that in no case shall the number of full courses of study required be less than the number required for the Degree of Bachelor of Science in Pure Science, as specified in Ordinance No. 12.

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[1] The Senate has authorised the Examiners in Mathematics and Natural Philosophy to return as having passed in the elementary part of either or both of these subjects any candidate who has attempted the examination in the higher branches of either or both and has failed to pass, provided that in the opinion of the Examiners the candidate has attained a standard equivalent to that required for the ordinary Degree of M.A.

[2] This examination includes practical work in the subjects admitting of, or requiring it: Provided that, in the case of Engineering Students, a practical examination shall be passed in Chemistry or Physics according as the Chemical or the Physical Laboratory Course has been chosen as part of the qualifying curriculum.

### DOCTORATE OF SCIENCE IN ENGINEERING.

XV. Graduates of the University of Glasgow who have held the degree of Bachelor of Science in Engineering for a term of five years, may offer themselves for the degree of Doctor of Science in Engineering in the said University.

XVI. A candidate for the degree of Doctor of Science in Engineering shall present a thesis or a published memoir or work[1] to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and shall be accompanied by a declaration, signed by him, that these conditions have been satisfied.

### GENERAL.

XVII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Engineering and Doctor of Science in Engineering, as the case may be, on payment of the fees required.

XVIII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in Engineering in the University of Glasgow, under regulations in force at the time therein, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,[2] or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science in Engineering.

XIX. The degrees of Bachelor and Doctor of Science in Engineering shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum.*

XX. This Ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 26th June, 1893.

For Dates of Examinations, see Table on page 203.

### DEGREES IN SCIENCE IN AGRICULTURE.

The regulations for the Degree of Bachelor of Science in Agriculture are contained in Ordinance No. 134 of the Universities Commission (1889), and are as follows:—

I. A degree of Bachelor of Science in Agriculture may be conferred by the University of Glasgow.

II. Every candidate for the degree of Bachelor of Science in Agriculture must pass the Preliminary Examination prescribed by Ordinance No. 11 [General, No. 6—Regulations for Degrees in Arts]; and the conditions with respect thereto imposed by the said Ordinance (see pp. 163–170, 175) shall be applicable in all respects to this Ordinance, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard;[1] (3) a degree in Arts (not being a degree *honoris causa* (honorary)) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, shall exempt from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

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[1] The Thesis must be lodged on or before 12th January.

[2] Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

III. (1) Candidates must in the course of not less than three Academical years, within the meaning of the Ordinance hereinbefore first mentioned, attend at least twelve courses of instruction, in the subjects specified in Section VIII. of this Ordinance.

(2) It shall be the duty of the Senatus to determine from time to time which of the said courses shall be full courses and which shall be half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

Under this subsection the Senate, with the approval of the University Court, has determined that of the subjects specified in Section VIII. of this Ordinance, Nos. 1, 2, 3, 4, 5, 6 and 10 shall be taught in full courses, and Nos. 7, 8, 9, 11 (*a*), 11 (*b*), 11 (*c*) and 12 in half courses, and that the number of meetings shall be those inserted in square brackets in Section VIII. opposite the several subjects.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Glasgow. The course in Agriculture and Rural Economy must also be taken in the University of Glasgow, if instruction in the said subjects be provided in the University, or in the Glasgow and West of Scotland Technical College[2]: Provided always that that course in the said College shall be accepted as equivalent to a course in the University, subject to the following conditions:—

(*a*) The Senatus Academicus shall be represented on the governing body of the Technical College.[2]

(*b*) All future appointments to the Chair of Agriculture in the Technical College[2] shall be vested in a Joint Committee, consisting of three members of the University Court and of three members of the governing body of the Technical College.[2]

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation.

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[1] Candidates for the Degree of B.Sc. in Agriculture may offer themselves for examination in Mathematics on the intermediate (instead of on the higher standard), provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary. Notwithstanding these provisions candidates shall not be entitled to profess at the Final Science Examination Mathematics, Natural Philosophy, or Astronomy, unless they have passed the Preliminary Examination in Mathematics on the higher standard.

[2] An ordinance has been framed by the University Court, and is now [May 1901] before both Houses of Parliament, substituting the West of Scotland Agricultural College for the Glasgow and West of Scotland Technical College.

in Science in Agriculture: Provided that the fees for attendance at an approved Institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

(3) Residence and practical work at a farm shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

Under this subsection the following regulations have been made by the Senate, with the approval of the University Court.

1. Residence and practical work at a farm for twelve months shall be required, and the candidate must not be under sixteen years of age when he commences the residence.

2. The residence must be for twelve consecutive months, except in special cases in which the Senate may grant recognition of residence during two shorter periods amounting together to at least twelve months.

3. The candidate must produce evidence, satisfactory to the Senate, that he has fulfilled these regulations.

**V. All students availing themselves of the permission to attend the lectures of the teachers in the various departments of Agriculture in the Glasgow and West of Scotland Technical College, or of teachers in other approved institutions in Glasgow, or of other recognised teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by the students of the University, and having in respect of such payment a right to the use of the Library of the University.**

**VI. (1) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.**

**(2) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Faculty of Science for its consideration a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.**

**VII. The provisions of the immediately preceding section shall not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow, where such exist.**

VIII. The subjects of study shall be as follows:—

1. Mathematics [100 meetings].
   or Biology, *i.e.*, Zoology [100 meetings, viz., 50 lectures and 50 practical].
   and
   Botany, [100 meetings, viz., 50 lectures and 50 practical].

2. Natural Philosophy [100 meetings].
3. Chemistry [100 meetings and three months in Chemical Laboratory].
4. Agriculture and Rural Economy [100 meetings].
5. Agricultural Chemistry [100 meetings, viz., 50 lectures and 50 practical].
6. Geology [75 meetings, viz., 50 lectures and 25 practical demonstrations].
7. Veterinary Hygiene [50 meetings].
8. Agricultural Botany [50 meetings].
9. Agricultural Entomology [25 meetings].
10. Economic Science as applied to Agriculture [100 meetings].[1]
11. One of the following:—
    (*a*) Forestry [50 meetings].
    (*b*) Experimental Physics [50 meetings].
    (*c*) Engineering [50 meetings].
12. Engineering Field Work [50 meetings].

IX. (1) There shall be a First Science Examination in the three following subjects—viz., (1) Mathematics or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects shall be the same as the examination in these subjects for the degree of Bachelor of Science, under the provisions of Ordinance No. 12 [General, No. 7—Regulations for Degrees in Science].

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

X. (1) There shall be a Final Science Examination in the remaining subjects (4 to 12 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

XI. A candidate for the degree of Bachelor of Science in Agriculture shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. The Examiners for the degree of Bachelor of Science in Agriculture shall be the Professors of the subjects in the Curriculum in the University of Glasgow, the Professor of Agriculture in the Glasgow and West of Scotland Technical College, and such additional Examiners as the University Court shall see fit to appoint.

### GENERAL.

XIII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Agriculture, on payment of the fees required.

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[1] The Glasgow and West of Scotland Technical College contemplates the institution of a special class for the teaching of this subject in 50 meetings. Until this special class shall be instituted candidates are required to attend the ordinary class of Political Economy [100 meetings]. After both classes are available students will have the option of taking either. In the examination prescribed under Section X. every candidate shall be required to work a paper of questions on Economic Science as applied to Agriculture.

XIV. The degree of Bachelor of Science in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum.*

XV. This ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 13th August, 1895.

## CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

1. Mathematics, including Analytical Geometry and Differential and Integral Calculus.
2. Natural Philosophy—the work of the Ordinary Class.
3. Chemistry.

And either :—

4, 5. Two courses in Engineering, including Laboratory Practice.
6, 7. Two courses of practical work in Drawing.
8. A course in one of the following :—
    (*a*) Astronomy and Geodesy.
    (*b*) Geology and Mineralogy.
    (*c*) Naval Architecture.
    (*d*) Engineering Laboratory, Mechanical or Electrical (special course).
    (*e*) Electricity—Pure and Applied.

Or :—

4, 5. Two courses in Naval Architecture with Marine Engineering.
6, 7. Two courses of practical work in Ship and Engineering Drawing.
8. A course in Engineering, including Laboratory Practice.

Any candidate who commenced his course previous to session 1898-99 may complete it in accordance with the regulations published in the *Calendar* of 1897-98.

No candidate is admitted to the special examination for the certificate, in any department, till he has given regular attendance upon, and duly performed the work of the prescribed course of study in that department.

Attendance on the classes of Mathematics, Natural Philosophy, Chemistry, or Geology, in any Chartered University in the United Kingdom having the power of granting degrees, is admitted as part of the course for the above-mentioned certificate ; but all examinations for the certificate must be passed in this University.

Candidates for Certificates of Proficiency in Engineering Science, who are graduates in Arts of any Chartered University of the United Kingdom, are exempted from study and examination in Mathematics and Natural Philosophy.

## TABLE OF EXAMINATIONS FOR DEGREE OF B.SC., TO BE HELD DURING SESSION 1901-2.

| Names to be given in and Fees paid to Assistant Clerk (Matriculation Office). Date.[1] | Fee. | Subjects of Examination. | Dates of Written Examinations and Hours at which the different Papers will be set. The Oral Examinations in Science follow the Written at dates to be arranged. | |
|---|---|---|---|---|
| | | | September—October, 1901. | March—April, 1902. |
| 12th September, 1901, or 13th March, 1902. | [illegible] | Astronomy, | Saturday, 28th Sept., 9—12 noon. | Saturday, 29th March, 9—12 noon. |
| | | Geology, | Do., do., 1—4 p.m. | Do., do., 1—4 p.m. |
| | | Zoology, | Monday, 30th Sept., 10—11.30 a.m. | Monday, 31st March, 10—11.30 a.m. |
| | | Botany, | Do., do., 12.30—2 p.m. | Do., do., 12.30—2 p.m. |
| | | Chemistry, | Do., do., 3—4.30 p.m. | Do., do., 3—4.30 p.m. |
| | | Engineering Laboratory, | Do., do., 10—1 p.m. and 2—5 p.m. | Do., do., 10—1 p.m. and 2—5 p.m. |
| | | Engineering Drawing, | Tues., 1st Oct., 9—12 noon and 2—5 p.m. | Tues., 1st April, 9—12 noon and 2—5 p.m. |
| | | Naval Architecture, | Do., do., 12.30—2.30 p.m. | Do., do., 12.30—2.30 p.m. |
| | | Ship Drawing, etc., | Do., do., 3—5 p.m. | Do., do., 3—5 p.m. |
| | | Anatomy, | Do., do., 10—12 noon. | Do., do., 10—12 noon. |
| | | Physiology, | Do., do., 12.30—2.30 p.m. | Do., do., 12.30—2.30 p.m. |
| | | Civil Engineering, | Wednesday, 2nd Oct., 10—12 noon, and 2—4 p.m. | Wednesday, 2nd April, 10—12 noon, and 2—4 p.m. |
| | | Civil Engineering, | Thursday, 3rd Oct., 10—12 noon, and 2—4 p.m. | Thursday, 3rd April, 10—12 noon, and 2—4 p.m. |
| | | Mathematics | Friday, 4th October, 10—1 p.m., and 2—5 p.m. | Friday, 11th April, 10—1 p.m., and 2—5 p.m. |
| | | Natural Philosophy | Saturday, 5th October, 10—1 p.m., and 2—5 p.m. | Saturday, 12th April, 10—1 p.m., and 2—5 p.m. |

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[1] When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged.

For Dates in regard to Science Preliminary Examination see page [illegible]

## DIPLOMA IN EDUCATION.

The following regulations drawn up by the Senate were approved by the University Court on 26th April, 1900:

1. Candidates for the Diploma in Education must be graduates in Arts or Science of a University in the United Kingdom, or of some other University recognised for this purpose by the University Court.

2. The diploma is of two grades: (*a*) General Diploma, and (*b*) Diploma with Distinction.

3. The general diploma is open to any graduate in Arts or Science who fulfils the following requirements:

(*a*) In addition to the curriculum for his Degree he must give attendance on a full course and pass the Degree examination on the same, subject to the condition that the regulations applicable to this additional course as a Degree course shall be fulfilled. This additional course may be taken at any time either before or after graduation.

(*b*) The Education course must in every case either constitute part of his Degree curriculum, or be the additional course prescribed in the preceding subsection.

(*c*) He must produce evidence either (1) that he has attended a course of Practical Instruction as a King's Scholar in a Training College for Teachers, or (2) that he has gone through a course of Practical Training in a Training College for Teachers—the course to extend over five months (not less than eight hours weekly), and to include instruction in School management, Practice in teaching, and a series of Model and Criticism Lessons.[1]

(*d*) He must pass a Written examination, conducted by the University, in School Management and Organisation and Methodology, and give proof of his practical skill by conducting a class to the satisfaction of an Examiner or Examiners appointed by the University.

N.B.—*The general Diploma is recognized by the Scotch Education Department as qualifying (in the case of graduates of the University of Glasgow) for employment in Public Schools.*

4. The Diploma with Distinction is open to any holder of an ordinary degree in Arts, any graduate in Arts with Honours, or any graduate in Science, who fulfils the requirements of the preceding regulation, and in addition passes an examination on the method of teaching one or more of the following groups of subjects as taught in Secondary Schools, viz. (*a*) Classics; (*b*) Mathematics; (*c*) Science; (*d*) English, including History; (*e*) French and German: Provided always that the holder of an ordinary Degree in Arts before being admitted to the examination on the method of teaching shall be required to pass an examination equivalent to an Honours or to a Final Science examination in the group or groups of subjects selected by him.

5. The Fee for the Diploma is Two Guineas.

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[1] Acting Teachers who produce their Parchment Certificates, or who produce evidence of having taught with success in Secondary Schools for two years, shall be held to have complied with this regulation, and may, on fulfilling the other requirements, receive the Diploma.

## 3.—HIGHER DEGREES IN ARTS AND SCIENCE.

In Ordinance No. 62, issued on 15th February, 1895, and approved by Her Majesty in Council on 29th June, 1895, the Universities Commission made the following regulations for Higher Degrees in Arts and Science :—

### Degree of D.Sc.

I. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mathematics and Natural Philosophy under the conditions prescribed by Ordinance No. 11 (Regulations for degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Science (D.Sc.) in the same University after the expiry of five years from the date of their graduation in Arts, under the same conditions as if they held the degree of Bachelor of Science.

II. Research Students within the meaning of Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research and for the appointment of Research Fellows) may offer themselves for the degree of Doctor of Science of the University in which they have prosecuted some special study or research under that ordinance, although they have not taken the degree of Bachelor of Science or the degree of Master of Arts with Honours as aforesaid, in that University. Provided—

(1) That they hold the degree of Bachelor of Science or Bachelor of Medicine of a Scottish or any recognized University, or a degree of any such University, which the Senatus Academicus shall hold to be equivalent to the degree of Bachelor of Science or to the degree of Master of Arts with first or second class honours in Mathematics and Natural Philosophy: Provided that candidates who hold any such degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Science, to pass an examination equivalent to an Honours or to a Final Science Examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and that they produce evidence of satisfactory progress in the special study or research undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

III. All candidates for the degree of Doctor of Science shall present a thesis or a published memoir or work,[1] to be approved by the Senatus on the recommendation of the Faculty of Science[2]: Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination conducted orally or practically, or by written papers, or by all of these methods, on the subjects of his special study or of his thesis, as may from time to time be determined. The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration signed by him that the work has been done and the thesis composed by himself.

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[1] The Thesis must be lodged and the fees paid on or before [illegible].

[2] Ordinance No. [illegible], which was issued by the Universities Commission on [illegible] June, [illegible], and which was approved by Her Majesty in Council on [illegible] May, [illegible], requires that the thesis, memoir or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

### DEGREE OF D.PHIL.

IV. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Philosophy (D.Phil.) in the same University after the expiry of five years from the date of such graduation.

V. Research Students as aforesaid may offer themselves for the degree of Doctor of Philosophy of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

(1) That they hold the degree of Master of Arts with first or second class honours in Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid: Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students, with a view to the degree of Doctor of Philosophy, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

VI. All candidates for the degree of Doctor of Philosophy shall present a thesis or a published memoir or work,[1] which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus[2]: Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

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[1] See first footnote on p. 205.

[2] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

### Degree of D.Litt.

VII. Graduates who have taken the degree of Master of Arts in any Scottish University with first or second class honours in any group other than Mathematics and Natural Philosophy or Mental Philosophy, under the conditions prescribed by Ordinance No. 11 (Regulations for Degrees in Arts), or under the regulations previously in force in such University, may offer themselves for the degree of Doctor of Letters (D.Litt.) in the same University after the expiry of five years from the date of such graduation.

VIII. Research Students as aforesaid may offer themselves for the degree of Doctor of Letters of the University in which they have prosecuted some special study under Ordinance No. 61 (Regulations for the Encouragement of Special Study and Research, and for the appointment of Research Fellows), although they have not taken the degree of Master of Arts with Honours as aforesaid in that University: Provided—

(1) That they hold the degree of Master of Arts with first or second class honours in any group except Mathematics and Natural Philosophy or Mental Philosophy of any Scottish University, or a degree of any recognised University, which the Senatus Academicus shall hold to be equivalent to such degree with honours as aforesaid: Provided that candidates who hold such a degree from a University outside the United Kingdom may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Letters, to pass an examination equivalent to an honours examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two winter sessions or an equivalent period as Research Students in the University granting the degree, and produce evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

IX. All candidates for the degree of Doctor of Letters shall present a thesis or a published memoir or work,[2] which shall be an original contribution to learning, to be approved by the Senatus Academicus on the recommendation of a Committee appointed by the Senatus:[1] Provided that, if required by the Senatus, a candidate shall also be bound to pass such examination, conducted orally or otherwise, on the subject of his thesis or of his special study as may from time to time be determined. The thesis, or memoir, or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve.

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[1] See first footnote on p. [illegible]

[2] Ordinance No. 167, which was issued by the Universities Commission on 28th June, 1897, and which was approved by Her Majesty in Council on 18th May, 1898, requires that the thesis, memoir, or work shall in each case be examined by the additional examiner to be appointed by the University Court under Ordinance No. 62, Section X., as well as by the examiner or examiners to be appointed by the Senatus under Ordinance No. 62, Section IX. (*sic*).

### General.

X. The Senatus Academicus in each University shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the provisions either of Ordinance No. 12 (Regulations for Degrees in Science) or of this ordinance, for the degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters; and the University Court shall, after consultation with the Senatus Academicus, appoint an additional Examiner to act along with them.[1] Such additional Examiner shall be a person of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval. The result of the examination shall be reported to the appropriate Faculty or Committee of Senatus.

XI. The Degrees of Doctor of Science in Mental Science or Doctor of Science in Philology shall no longer be conferred by any Scottish University.

XII. Candidates who have already completed the necessary attendance on classes required for the degree of Doctor of Science in Mental Science or Doctor of Science in Philology, under regulations hitherto in force in any Scottish University, may proceed to the degree of Doctor of Philosophy, or of Doctor of Letters, as the case may be, under this ordinance: Provided such candidates comply with the provisions of Section VI. or Section IX. hereof, as the case may be, and that a period of not less than five years shall have elapsed from the date of their graduation as Masters of Arts.

XIII. The degrees of Doctor of Science, Doctor of Philosophy, and Doctor of Letters shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIV. The fee to be paid for the degree of Doctor of Philosophy shall be ten guineas.

XV. The fee to be paid for the degree of Doctor of Letters shall be ten guineas.

## 4.—GRADUATION IN MEDICINE AND SURGERY.

The Degrees in Medicine and Surgery conferred by this University are all recognised by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

Every student who began his medical studies previous to 1st January, 1892, is entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before[1] or after that date. All others must fulfil the requirements of the new ordinance (Ordinance No. 14, Glasgow No. 1—Regulations for Degrees in Medicine)—the principal provisions of which are as follows:—

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[1] Ordinance No. 167, which was issued by the Universities Commission on 24th June, 1897, and which was approved by Her Majesty in Council on 19th May, 1898, empowers the University Court to appoint, as additional examiners under this section, persons who are Professors or Lecturers in any Scottish University other than the University granting the degree.

I. Four degrees in Medicine and Surgery are conferred by the University of Glasgow, viz., Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, and the Degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Surgery.

II. Subject to regulations to be made from time to time by the University Court, the University may also confer Diplomas in Special Branches of Medical and Surgical Practice on graduates of the University in Medicine and Surgery.

III. Before commencing his medical studies, each student shall pass a Preliminary Examination in (1) English, (2) Latin, (3) Elementary Mathematics, and (4) Greek or French or German: Provided always that, in the case of a candidate whose native language is not English, an examination in the native language of the candidate may be substituted for one in either French or German, and an examination in any other classical language for one in Latin or Greek.[2]

IV. The extent and standard of the Preliminary Examination shall be determined by the Joint Board of Examiners constituted under Ordinance No. 13 (Regulations as to Examinations) in accordance with the terms of that ordinance.

> Under this section the Joint-Board have directed that for the Medical Preliminary Examination the papers set in Latin, Greek, and Mathematics shall be the same as those set on the lower standard in these subjects in the Arts and Science Preliminary Examination.[3]
>
> In English, no set books shall be prescribed, nor shall a general knowledge of the life and works of the greater authors be expected of candidates, but one or two questions may be set, giving an opportunity to candidates to show a knowledge of famous literary works. The historical questions shall not be confined to any one period, but shall cover the whole of British History, and shall be set in such a way as to give an opportunity to candidates who have confined their studies to a single period to show their knowledge. A single three hours paper shall be set, containing an Essay, a Paraphrase, two questions on History, two on Geography, four on Grammar (including correction of sentences, parsing, analysis of sentences, and derivations), two or

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[1] These regulations may be found at pp. [illegible] of the University Calendar for session [illegible], and in the Calendars for preceding sessions.

[2] The candidate for the Degrees of Bachelor of Medicine and Bachelor of Surgery must have been registered in the Register of the General Medical Council at least five years prior to the date of his graduation. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, [illegible] Square, Edinburgh, together with a printed form of application, which may be obtained from the Assistant Clerk (Matriculation Office, University), a certificate of having passed the Preliminary Examination, and (in any application made after [illegible]) satisfactory evidence of the applicant having attained the age of sixteen years.

[3] For details see p. [illegible]

a literary and general kind. Eight answers shall be required. The Essay, the Paraphrase, one answer on History and one on Geography shall be compulsory.

One paper shall be set in French and one in German. The papers shall be of a lower standard than those set in these subjects in the Arts and Science Preliminary Examination. The time allowed for each of these papers shall be three hours. The paper in each subject shall comprise questions in Grammar, translation into English, a piece of English, and some short sentences in English of an idiomatic character, for translation.

It shall be in the option of any candidate for the Medical Preliminary to take the papers set on the higher standard for the Arts Preliminary in any of the subjects.

Candidates who, having taken English, Latin, Greek, Mathematics, or a Modern Language, on the higher standard, as prescribed by the Arts Ordinance for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, shall be held to have passed the Medical Preliminary in these subjects: Provided that all the required subjects are passed at not more than two examinations.

V. The Preliminary Examination shall be conducted in accordance with the provisions of Ordinance No. 13 (Regulations as to Examinations), and, subject to the provisions of the immediately succeeding section hereof, *a candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; Provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.*[1]

VI. A degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination; and the Joint-Board of Examiners appointed under the provisions of Ordinance No. 13 (Regulations as to Examinations) shall have power to determine what examinations, other than those for the degrees hereinbefore mentioned, shall be accepted, either in whole or in part, in place of the Preliminary Examination.

The Joint-Board have issued the following rules under the heading:— Examinations accepted as exempting from the Preliminary Examination in Medicine: *Provided always that the regulations of the General Medical Council regarding the registration of students of Medicine be complied with*:—

1. In terms of the Medical Ordinances, "a degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University, specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination."

2. Any candidate who produces a certificate of having passed the Preliminary Examination in Arts or Science in any Scottish University, either at the University Examination or through the Leaving Certificates of the Scotch Education Department, or partly at the University Examination and partly through the Leaving Certificates, shall be held to have passed the Preliminary Examination for Medi-

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[1] The words in *italics* are taken from Ordinance No. 156, Section I.

cine: Provided that the examination has included the specified subjects of General Education as required under the Regulations of the General Medical Council, and by Section III. of this ordinance.

3. A candidate who has passed the Arts and Science Preliminary Examination of the Joint-Board in any subject (Higher Standard where there is more than one) recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

4. A candidate who has obtained the Leaving Certificate (Honours or Higher Grade) of the Scotch Education Department in any subject recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject in the aforesaid Preliminary Examination.

The regulation that all the subjects of the examination shall be passed at one or not more than two examinations shall not be held to apply to the above cases, 2, 3, and 4. But candidates complying with Rules (2, 3, and 4) must obtain a University Certificate specifying the examinations passed by them which have been accepted as equivalents to the Preliminary, and must present said certificate to the Medical Registrar in order to registration.

Further, each such candidate when applying for said certificate must, if he has not entered for any part of the Preliminary, produce a Matriculation Card from some one of the Scottish Universities.

5. Lower Grade Leaving Certificates of the Scotch Education Department will only be accepted as exempting from the Medical Preliminary Examination provided the examinations in all the requisite subjects have been taken and passed at one or not more than two[1] examinations.

6. The following English and Irish University Examinations will be accepted (provided they include all the subjects required under the regulations of the General Medical Council, and prescribed by Section III. of this ordinance), viz.:—

Oxford Responsions, or Moderations—provided the candidate pass the examination of the Joint-Board in English.

Cambridge Previous Examination—provided that candidates who have passed it prior to Michaelmas, 1896, shall pass the examination of the Joint-Board in English. If passed after Michaelmas, 1896, the Previous Examination will be accepted as exempting *in toto*.

Oxford Senior Local Examinations will be accepted *pro tanto*, provided that, as regards English, the certificate shall bear that the candidate has passed in division 1 of the subject, and in either division 3, 4, or 5.

Oxford Higher Examination for Women will be accepted *pro tanto*.

Cambridge Senior Local Examinations will be accepted *pro tanto*.

Cambridge Higher Local Examinations will be accepted *pro tanto*.

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[1] The General Medical Council will bring this rule into operation for registration purposes from and after 1st January, [illegible]. By the existing regulations of the General Medical Council Lower Grade Leaving Certificates are accepted for registration only when they all bear the same date, and cover the whole four subjects.

OXFORD and CAMBRIDGE Schools Examination Higher Certificate will be accepted *pro tanto*, provided that, as regards Mathematics, the certificate shall bear that the candidate has passed in both Elementary and Additional Mathematics.

LONDON UNIVERSITY Matriculation Examination.

DUBLIN, TRINITY COLLEGE.—Public Entrance Examination.

ROYAL UNIVERSITY OF IRELAND.—Matriculation Examination.

VICTORIA UNIVERSITY.—Preliminary Examination; Entrance Examination in Arts.

By *pro tanto* is here meant that a certificate of having passed in the examination referred to, in any subject required for the Medical Preliminary Examination, shall, as regards that subject, exempt from further examination in the said Preliminary Examination, provided that all the required subjects shall be passed at one or not more than two examinations.

7. The examinations of the following Indian, Colonial, and Foreign Universities and Colleges will be accepted (provided the examinations include all the subjects required by the General Medical Council and prescribed by Section III. of this ordinance), viz.:—

UNIVERSITIES OF (1) CALCUTTA, (2) MADRAS, (3) BOMBAY, (4) ALLAHABAD, and (5) PANJAB—Entrance Examination.

UNIVERSITIES OF (1) THE CAPE OF GOOD HOPE.—Matriculation Examination; (2) TASMANIA.—Matriculation Examination; (3) NEW ZEALAND.—Matriculation and Medical Preliminary Examinations; (4) MELBOURNE.—Matriculation Examination; (5) SYDNEY.—Matriculation Examination; (6) ADELAIDE.—Matriculation Examination, or its substitute, the Senior or Junior Public Examination.

THE PROVINCIAL EDUCATION DEPARTMENT OF ONTARIO.—Departmental Pass Arts Matriculation Examination.

TRINITY UNIVERSITY, TORONTO.—Matriculation Examination.

THE UNIVERSITY OF TORONTO.—Senior or Junior Matriculation Examination.

QUEEN'S COLLEGE AND UNIVERSITY, KINGSTON.—Matriculation Examination.

M'GILL UNIVERSITY.—Matriculation Examination.

KING'S COLLEGE, WINDSOR, NOVA SCOTIA.—Responsions.

DALHOUSIE COLLEGE, HALIFAX.—Matriculation Examination.

MOUNT ALLISON COLLEGE, SACKVILLE, NEW BRUNSWICK.—Matriculation Examination.

THE UNIVERSITY OF WINNIPEG.—Preliminary Examination in Arts.

VICTORIA COLLEGE, UPPER CANADA.—Matriculation Examination.

THE UNIVERSITY OF HALIFAX, NOVA SCOTIA.—Matriculation Examination.

THE UNIVERSITY OF FREDERICTON, NEW BRUNSWICK.—Matriculation Examination.

THE WESTERN UNIVERSITY OF ONTARIO.—Matriculation Examination.

THE UNIVERSITY OF MANITOBA.—Previous Examination.

CODRINGTON COLLEGE (BARBADOS).—English Certificate for Students of two years' standing, and Latin Certificate, or "Testamur."

GERMANY AND OTHER CONTINENTAL COUNTRIES.—Gymnasial Abiturienten Examen, and corresponding Entrance Examinations to the Universities.

8. In the case of candidates for the Medical Preliminary Examination, who hold qualifications from Foreign or Colonial Bodies, other than Universities, whose certificates are not included in the list of Equivalent Examinations issued by the Joint Board, a committee in each University, consisting of the Deans of the Faculties of Arts, Science, and Medicine, is empowered to accept such certificates, if it deems them sufficient, provided that all such cases are reported to the Joint-Board at their meeting next following.

[Students would do well to ascertain at the Matriculation Office whether their Preliminary Examination is complete before beginning their medical studies.]

## PROFESSIONAL EDUCATION.[1]

VII. Candidates shall be admitted to the Degree of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions:—

1. The candidate must have been engaged in medical study for at least five years.
2. In each of the first four years the candidate must have attended at least two courses of instruction, in one or more of the subjects of study specified in Sub-section 4 hereof—each course extending over a session of not less than five months, either continuous or divided into two terms; or, alternatively, one such course, along with two courses, each extending over a session of not less than two and a half months.
3. During the fifth or final year the candidate shall be engaged in clinical study for at least nine months at one or more of such public hospitals or dispensaries, British or Foreign, as may be recognised for the purpose by the University Court.
4. The candidate must, during his curriculum, have attended a course or courses of instruction in each of the following subjects of study, including such examinations as may be prescribed in the various classes, viz.:—

| | |
|---|---|
| 1. ANATOMY, | During a course of not less than five months. |
| 2. PRACTICAL ANATOMY, | During two courses of not less than five months each. |
| 3. CHEMISTRY, | During courses of not less than five months. |
| 4. MATERIA MEDICA and THERAPEUTICS, | |
| 5. PHYSIOLOGY or INSTITUTES OF MEDICINE, | |
| 6. PRACTICE OF MEDICINE, | |
| 7. SURGERY, | |
| 8. MIDWIFERY and the DISEASES peculiar to WOMEN and INFANTS. Two courses of Midwifery, of three months each, provided different departments of Obstetric Medicine be taught in each of the courses, shall be reckoned equivalent to a course of not less than five months, | |
| 9. PATHOLOGY, | |

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[1] For Order of Study recommended see p. [illegible]

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| 10. PRACTICAL CHEMISTRY, - - - - - -<br>11. PHYSICS (including the DYNAMICS OF SOLIDS, LIQUIDS, and GASES, and the RUDIMENTS OF SOUND, HEAT, LIGHT, and ELECTRICITY),<br>12. ELEMENTARY BOTANY, - - - - - -<br>13. ELEMENTARY ZOOLOGY, - - - - - -<br>14. PRACTICAL PHYSIOLOGY, - - - - - -<br>15. PRACTICAL PATHOLOGY, - - - - - -<br>16. MEDICAL JURISPRUDENCE and PUBLIC HEALTH, | During courses of not less than two and a half months. |

Provided always, in so far as regards the University of Glasgow, that—

(*a*) It shall be the duty of the Senatus to determine from time to time [after receiving through the Faculty of Medicine the opinion of the Board of Studies] the number of meetings of which such courses shall consist, and in what cases two half courses shall be deemed equivalent to a full course ; and to report the determination to the University Court for its approval.[1]

(*b*) It shall be the duty of the Professors and Lecturers to submit to the Senatus [after 1st October, 1894, the Board of Studies] annually at the end of the winter session a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. [The Board of Studies shall transmit the schemes to the Faculty of Medicine, who shall submit them to the Senate with such observations as they may think fit to make thereon.] The Senatus shall transmit such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.[1]

(*c*) The University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

5. The candidate must have attended for at least three years the Medical and Surgical Practice of a General Hospital at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons, and is recognised for the purpose by the University Court.[2]
6. The candidate must have attended Clinical Surgery during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical Surgery, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary surgeons of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.
7. The candidate must have attended Clinical Medicine during a course or courses extending over not less than nine months. These courses may be conducted by the Professor of Clinical

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[1] The Universities Commission, on 18th November, 1893, ordained that for the better carrying out of the purposes of these provisos the Senate should institute a Board or Boards of Studies in the Faculty of Medicine. See Section I., Ordinance No. 42, which received the approval of Her Majesty in Council on 28th May, 1894. The provisions of this supplementary ordinance have, in the text, been combined with the provisions of the original ordinance, by means of square brackets.

[2] On 7th October, 1892, the University Court recognised every General Hospital in the United Kingdom which accommodates not fewer than eighty patients, *and possesses a distinct staff of physicians and surgeons.*

Medicine, or by Professors or Lecturers appointed for the purpose by the University Court, or by the ordinary physicians of a general hospital defined and recognised as hereinbefore provided, and shall consist of regular instruction at the bedside, along with Clinical Lectures.

8. The candidate must have attended a course of instruction in Mental Diseases, of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time determine.

Under this sub-section the Senate, with the approval of the University Court, has determined that each candidate for the Degree of M.B. and Ch.B. shall be required to attend a course of instruction in Mental Diseases, given by the University Lecturer or by a recognised teacher, consisting of not less than eighteen meetings. Six of these may be class-room lectures, and the others shall be demonstrations in the wards of an asylum for the insane.

9. The candidate must have attended a course of twenty-five meetings on Practical Pharmacy in a University or recognised School of Medicine, or have dispensed drugs for a period of three months in an hospital or dispensary, or in an establishment recognised by the Pharmaceutical Society, i.e. in *the establishment of any chemist and druggist or pharmaceutical chemist of Great Britain, or any pharmaceutical chemist of Ireland, who is registered in the books of the Pharmaceutical Society of Great Britain or of the Pharmaceutical Society of Ireland respectively.*[1]

10. The candidate must have attended, for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician or surgeon, or of a member of the London or Dublin Society of Apothecaries. He must have acted as clerk in the medical and dresser in the surgical wards of a public hospital; and must also have availed himself, to such an extent as may be required by the Senatus, with the approval of the University Court, of opportunities of studying at an hospital or dispensary *Post-mortem* Examinations, Fevers, Diseases of Children, Ophthalmology, or such other special departments as may from time to time be determined.

Under this sub-section the Senate, with the approval of the University Court, has determined as follows:—

A. Each candidate for M.B. and Ch.B. shall be required to attend—

1. Demonstrations in the post-mortem room of a recognised hospital, with practical instruction in making *post-mortem* examinations. The student must have attended during his curriculum at least twenty examinations.
2. A course of clinical instruction in Fevers, consisting of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds.
3. A practical course of instruction in Ophthalmology of not less than twenty meetings. Six of these may be class-

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[1] The explanatory words in italics are taken from Ordinance No. 11, section II., issued by the Universities Commission on 18th Jan., [illegible], which came into operation on 11th May, [illegible], having been on that date approved by Her Majesty in Council.

room lectures, and the others shall be for clinical instruction in the wards of a recognised hospital,[1] or in the wards of a hospital and in a dispensary both recognised for the purpose. The course shall include sufficient practical instruction in the methods of examining the eye.

B. Each candidate is also recommended to attend the following:—(*a*) Diseases of Children, (*b*) Diseases of the Ear, (*c*) Diseases of the Throat and Nose, and (*d*) Diseases of the Skin, in short practical courses of ten meetings.

*N.B.*—This is not to be understood as preventing a teacher in any speciality giving a fuller course to such students as may desire to follow out more fully any particular branch.

11. The candidate must have attended, under the superintendence of a registered medical practitioner, twelve cases of labour, or such additional number as the Senatus, with the sanction of the University Court, may from time to time determine; or have attended for three months the practice of a lying-in hospital, or of the maternity department of a general hospital or other public charitable institution, and have conducted personally six, or such an additional number of cases of labour as the Senatus, with the approval of the University Court, may from time to time determine.
12. The candidate must have been properly instructed in Vaccination at a Public Vaccination Station, by a Public Vaccinator, authorised by the proper Government Authority to grant Certificates of Proficiency in Vaccination.[2]
13. No candidate for a degree shall be deemed to have attended a class as part of the curriculum necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

VIII. With respect to the places and institutions at which the studies of the candidate may be prosecuted, the following regulations shall have effect:

1. Two of the five years of medical study must be spent in the University of Glasgow, each year of study including always the attendances specified in Section VII., sub-section 2.
2. The remaining three years may be spent in any University of the United Kingdom, or in any Indian, Colonial, or Foreign University recognised for the purpose by the University Court, or in such medical schools or under such teachers as may be recognised for the purpose by the University Court, each year of study during the first four years including always the attendances specified in Section VII., sub-section 2.
3. Of the subjects of study specified in Section VII., sub-section 4, not less than eight must be taken in the University of Glasgow, or (subject always to the provisions as to attendance contained in the immediately preceding sub-sections) in some other University of the United Kingdom, or in some Foreign or Colonial Univer-

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[1] This means a hospital recognised *ad hoc*, after application to the University Court in each case.

[2] The recognised Vaccine Departments in Glasgow are—Western Infirmary and Royal Infirmary.

sity entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court, or in a College incorporated with, or affiliated to a University entitled to confer the Degree of Doctor of Medicine recognised for the purpose by the University Court: Provided always that where in any of said subjects of study two or more courses are required, the taking of one of those courses shall constitute a taking of the subject for the purpose of this sub-section.

4. The remainder of such subjects of study may (subject always as aforesaid) be taken in such medical schools or under such teachers as may be recognised for the purpose by the University Court.

5. All candidates, not Matriculated Students of the University, availing themselves of the permission to attend the Lectures of Extra-Academical Teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having, in respect of such payment, a right to the use of the Library of the University.

6. The fee for attendance, for purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Glasgow shall be not less than the amount exigible for the corresponding courses in the University.

7. The University Court shall not recognise as qualifying for examination in any of the subjects specified in Section VII., sub-section 4, the class of any teacher who is at the time a teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects: Provided always that a Professor or other teacher in any endowed public College or institution, who by the terms of his appointment is required to teach more than one subject of medical study therein, may be recognised under sub-section 2 of this section, as a teacher of any one of the subjects which he teaches.

8. A teacher, attendance on whose course of instruction shall, before the date of the approval of this ordinance by her Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such teacher may continue to be recognised as heretofore.

9. It shall be in the power of the University Court, if it shall see cause, at any time to withdraw or suspend any recognition which it may have granted.

IX. In the University of Glasgow it shall be the duty of the Professors of the subjects specified in Section VII., sub-section 4 hereof (except Practical Anatomy and such other subjects as the Senatus, with the approval of the University Court, may from time to time determine), so to conduct the courses that Students may receive instruction sufficient for graduation in any one of the said subjects by attendance on one course of five or six months, or of two and a half or three months, as the case may be.[1]

X. If any candidate shall, before presenting himself for his Preliminary Examination, have attended in any University of the United Kingdom, or in any University or Institution specially approved, or under any Teacher specially recognised for the purpose by the University Court, a course or courses of instruction in Physics, Chemistry, Botany, or Zoology, equivalent in the judgment of the Senatus to the qualifying course in the same subject in the University of Glasgow, such attendance shall (notwithstanding anything hereinbefore ordained) be held as entitling him to be examined in these subjects; and if the candidate shall have attended such course or courses in each of the said subjects, he shall be held to have completed his first year of Medical Study: Provided always that the evidence of such attendance at such equivalent course or courses shall be presented to the Senatus at the time when the candidate presents himself for his Preliminary Examination; and the Senatus shall, if satisfied, grant a certificate to that effect: Provided also that *the provisions of this section shall not have effect except where the University Court shall allow their application after a report by the Senatus Academicus, setting forth special grounds therefor in the case of any candidate named in the report.*[2]

## PROFESSIONAL EXAMINATION FOR THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY.[3]

XI. Each candidate shall be examined both in writing and orally, and also clinically where the nature of the subject admits, in the following divisions, viz.:—*First*, in Botany, Zoology, Physics, and Chemistry; *Second*, in Anatomy, Physiology, and Materia Medica and Therapeutics, *Third*, in Pathology, and Medical Jurisprudence and Public Health; *Fourth*, in Surgery and Clinical Surgery, Practice of Medicine and Clinical Medicine, and Midwifery.

In subjects which admit of practical instruction, the examination shall be such as to test the practical acquirements of the candidate.

Provided always that if a candidate have obtained in a University of the United Kingdom, or other University specially recognised for the purpose by the University Court, a degree in Science or in Arts, granted in either case after a course of study and an examination in Botany,

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[1] Doubt being entertained as to the construction of this Section, the question was submitted to the Universities Commissioners, and evoked from them the following deliverance:—

It is not intended to require of the Professor a complete course of instruction by lectures during each session, or to limit the examinations for degrees to subjects which shall be discussed in the lectures of the Professor at the time that the student attended the course. The word "instruction," as used in this Section, is to be held to include lectures upon such parts of the subject as the Professor may be able to overtake, supplemented by directions as to the use of text-books or other sources of information for the remainder of the subject: and it is also intended that the examinations may be taken over the whole field, even when the Professor has not been able to include it all in his course of lectures.

[2] The proviso in italics is taken from Ordinance No. 54, Section V., issued by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

[3] For Table of Fees and Dates of Examinations, see page 225.

Zoology, Physics, and Chemistry, he shall be held to have passed his examinations in the said subjects.

Provided also that *if a candidate have completed in a University of the United Kingdom a course of study and passed an examination in Botany, Zoology, Physics, or Chemistry qualifying for a degree in Science or in Arts, he shall be held to have passed the examinations in such subject or subjects.*

*If a candidate have obtained a degree in Science or in Arts in any University other than a University of the United Kingdom, granted in either case after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, it shall be in the power of the University Court to exempt such candidate from the examinations in such subject or subjects: Provided that the course of study and the standard of examination in each case are satisfactory in the judgment of the Senatus Academicus.*[2]

XII. Candidates who profess themselves ready to submit to an examination in the subjects comprised in the first division, viz.: Botany, Zoology, Physics, and Chemistry, may be admitted to examination in all or any two of these subjects at any examination held after they have attended a full course in each of the subjects professed.

XIII. Candidates who have passed their examination in the subjects comprised in the first division may be admitted to examination in the second division at the end of the third winter session.

Provided that candidates who so desire may postpone their examination in Materia Medica and Therapeutics until the close of the summer session following.

XIV. Candidates who have passed their examinations in the subjects comprised in the first and second divisions may be admitted to examination in the third division at the end of the fourth winter session.

Provided that candidates who so desire may postpone their examination in Medical Jurisprudence and Public Health until the close of the summer session following.

XV. Candidates who have passed their examinations in the subjects comprised in the first, second, and third divisions may be admitted to examination in the fourth or final division, when they have completed the fifth year of study.

XVI. If any candidate at these examinations be found unqualified in one or more subjects he shall not again be admitted to examination unless he has pursued his medical studies for such time, and subject to such conditions, as the Faculty of Medicine may prescribe.

XVII. If any candidate at these examinations be found to have passed in one or more subjects with sufficient merit, he shall not be liable to re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects comprised in the same division as hereinbefore specified.

XVIII. Every candidate must deliver, on or before such day as the Senatus may from time to time determine, to the Dean of the Faculty of Medicine, a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation, and that he will not be, on the day of graduation, under articles of apprenticeship to any surgeon or other master.

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[2] The words in italics are taken from Ordinance No. 64, Sections III. and IV., passed by the Universities Commission on 18th July, 1894, which came into operation on 11th May, 1895, having been on that date approved by Her Majesty in Council.

XIX. After the candidate has satisfied the Examiners, the Dean of the Faculty of Medicine shall lay the proceedings before the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.[1]

XX. Candidates for graduation shall produce evidence of their having conformed to the regulations which were in force at the time they commenced their medical studies: Provided that any student who began his medical studies before 1st January, 1892, shall be entitled to graduate under the system in force before or after that date, according as he shall comply with the regulations in force in the University before[2] or after that date.

### Professional Examination for the Degree of Doctor of Medicine.

XXI. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such of its special departments as the Senatus, with the approval of the University Court, by Regulations framed from time to time, shall determine; and he may present himself for examination in Clinical Medicine at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Medicine for the Degree of Doctor of Medicine shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable, upon at least three Medical cases. In the selection of the cases, special regard shall be given to the opportunities they afford for testing the candidate, not only in the ordinary methods of clinical investigation, but also in the more advanced methods requiring practical knowledge in the applications of the ophthalmoscope and laryngoscope, in the chemical and microscopical examination of excreta, the quantitative determination and microscopic characters of the chief constituents of blood possessing clinical importance, the recording by instruments of the condition of the circulation, the applications of electricity, etc.

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[1] For Table of Fees and Dates of Examination, see page 225.

[2] These regulations may be found at pp. 188—192 of the *University Calendar* for session 1895-96, and in the *Calendars* for preceding sessions.

Provided always that one of the cases on which a candidate is examined may, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Diseases of Women, Diseases of Children, Mental Diseases, Zymotic Diseases, Diseases of the Eye, Diseases of the Throat, Diseases of the Ear, Diseases of the Skin. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

The examinations for M.D. will be held in the month of November or December, each Session. Candidates must enter their names and lodge their Theses with the Assistant Clerk (Matriculation Office) on or before 1st October.

3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects which are exclusively Surgical; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself,[1] shall be lodged with the Dean of the Faculty of Medicine (at the Matriculation Office) on or before a date to be fixed by the Senatus (1st October).

4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to the examination in Clinical Medicine at any period of examination after he has received such degrees; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively surgical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

*Bachelors of Medicine and Masters of Surgery of the University of Glasgow, who have graduated under the regulations in force before the fifth day of August, 1892, may proceed to the Degree of*

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[1] The Faculty of Medicine give notice that no Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited; mere compilations will in no case be accepted.

*Doctor of Medicine under the provisions of this section, in the same manner as if they held the Degree of Bachelor of Surgery.*[1]

### PROFESSIONAL EXAMINATION FOR DEGREE OF MASTER OF SURGERY.

XXII. 1. Subject to the conditions hereinafter specified the Degree of Master of Surgery shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged, subsequently to his having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in practice other than practice restricted to Medicine.

2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy, Operations upon the dead body, and Clinical Surgery, and in such of the special departments of Clinical Surgery as the Senatus, with the approval of the University Court, by Regulations framed from time to time, may determine; and he may present himself for examination in these subjects at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Surgery for the Degree of Master of Surgery shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable on at least three Surgical cases.

Provided that one of the three Surgical cases on which a candidate is examined shall, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Surgical Diseases of Women, Diseases of the Throat, Diseases of the Eye, Diseases of the Ear. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

3. Each candidate for the Degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth Examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself,[2] shall be lodged with the Dean

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[1] Taken from Ordinance No. 54, Section VI., which was issued by the Universities Commissioners on 18th July, 1894, and came into operation on 11th May, 1895, having on that date been approved by Her Majesty in Council.

[2] See footnote on previous page.

of the Faculty of Medicine on or before a date to be fixed by the Senatus.

4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such degrees, on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to examination in the subjects specified in Sub-section 2 of this section, at any period of examination after he has received such degrees; but the Degree of Master of Surgery shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively medical, and unless his Thesis, in the judgment of the Faculty of Medicine, is of exceptional merit.

### Fees.

XXIII. The fee to be paid for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall be twenty-two guineas, and the proportion of this sum to be paid by a candidate at each division of the examination shall be regulated from time to time by the University Court. The fee to be paid for the Degree of Doctor of Medicine shall be ten guineas, exclusive of any stamp duty which for the time may be exigible. The fee to be paid for the Degree of Master of Surgery shall be ten guineas.

### Examiners.

XXIV. The Examiners for graduation in Medicine in the University of Glasgow shall be the Professors in that University, together with such Lecturers in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary: Provided that the Court shall make such provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. The examinations shall be conducted in writing and orally and also clinically, when the nature of the subject admits, under regulations framed by the Senatus subject to the approval of the University Court.

### Distinctions attainable by Students and Graduates of Medicine.

Candidates who have shown special merit in any subject or subjects at any of the Professional Examinations will be announced as having passed in such subject or subjects "with distinction."

Candidates who have shown special merit as indicated by the aggregate results of the four Professional Examinations will be announced, at the time of Graduation, as having obtained Commendation or Honours, according to the degree of excellence.

In connection with the Higher Degrees in Medicine and Surgery two grades of distinction are also awarded, viz., Commendation and Honours. The Bellahouston Trustees have announced their intention of enabling the University to award three Gold Medals yearly to those who having gained Honours shall be pronounced by the Senate on the Report of the Faculty of Medicine worthy of this highest distinction for the excellence of their Theses.

### GRADUATION.

The terms for conferring Medical and Surgical Degrees in session 1901-2 are 7th November, 1901 ; 6th February, 1902 ; 22nd April, 1902 ; and 22nd July, 1902.

Candidates proceeding to graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict., ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of graduation.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath, formerly required to be taken and subscribed by every candidate on graduation :—

I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction ; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge.

### REGISTRATION OF MEDICAL PRACTITIONERS.

Graduates should register as soon as possible with the Branch Registrar for Scotland, at 48 George Square, Edinburgh. Fee £5. Additional qualifications, 5s. each. Forms of application may be had from the Assistant-Clerk (Matriculation Office).

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[1] *The Oath was in these words*:—Testor Deum omnipotentem me hoc Iusjurandum pro virili servaturum ; Victus rationem aegris commodam et salutarem praescripturum ; nullius intercessione nec sponte noxium pharmacum cuiquam propinaturum ; sed sancte et caste vitam artemque meam instituturum ; In quascunque domos intravero ad aegrotantium duntaxat salutem ingressurum et ab omni injuria inferenda procul futurum : Quaecunque inter curandum videro audiverove siquidem ea efferre non expediat silentio suppressurum.

## TABLE OF EXAMINATIONS FOR DEGREES IN MEDICINE TO BE HELD DURING SESSION 1901-2.

| Fees. | Names to be given in and Fees paid to Assistant Clerk[1] (Matriculation Office). Date.[2] | Dates of Written Examinations and Hours at which the different Papers will be set. Printed Schedules with detailed instructions for filling up may be obtained from the Assistant-Clerk[1] (Matriculation Office). The Professional Oral Examinations follow immediately after the Written. | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Under the Old Regulations the Fee for each Professional Examination is £3 3s.; under the New, the Fees are—First, £5 5s.; Second, £5 5s.; Third, £5 5s.; Fourth, £5 5s. | 12th September, 1901. | 1901. | | | | | | |
| | | Mon., 30th Sept., | Zoology | 10—11.30 a.m. | Botany | 12.30—2 p.m. | Chemistry | 3—4.30 p.m. |
| | | Mon., 30th ,, | Materia Medica | 10—12 noon. | | | | |
| | | Tues., 1st Oct., | Physics | 10—12 noon | Anatomy | 10—12 noon. | Physiology | 12.30—2.30 p.m. |
| | | Wed., 2nd ,, | Med. Jurisp. (N.R.) | 12—1 p.m. | Pathology | 2—4 p.m. | | |
| | 13th March, 1902. | 1902. | | | | | | |
| | | Mon., 31st March | Zoology | 10—11.30 a.m. | Botany | 12.30—2 p.m. | Chemistry | 3—4.30 p.m. |
| | | Mon., 31st ,, | Materia Medica | 10—12 noon. | | | | |
| | | Tues., 1st April, | Physics | 10—12 noon. | Anatomy | 10—12 noon. | Physiology | 12.30—2.30 p.m. |
| | | Wed., 2nd ,, | Med. Jurisp. (N.R.) | 10—1 p.m. | Pathology | 2—4 p.m. | | |
| | 28th May, 1902. | 1902. | | | | | | |
| | | Thur., 19th June | Practice of Medicine | 10—12 noon. | Surgery | 2—4 p.m. | | |
| | | Fri., 20th ,, | Midwifery | 10—12 noon. | | | | |
| | | Fri., 20th ,, | (Optional Examinations Begin.) | | | | | |
| | | Mon., 23rd ,, | Medical Jurisp. (O.R.) | 10—12 noon. | | | | |
| | | Tues., 24th ,, | Pathology (O.R.) | 10—12 noon. | | | | |

[1] For Women Students, Miss Galloway, Queen Margaret College.

[2] When names are not given in and fees are not paid on or before the dates stated, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary Certificates, etc., lodged. Every candidate must matriculate at the University for the session in which he enters for professional examination or for graduation.

For Dates in regard to Medical Preliminary Examination, see page [illegible].

## 5.—GRADUATION IN LAW.

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification, except as stated on page 111.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case ; and by Act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal, and a similar provision is contained in the Act of Sederunt of 18th March, 1893.

### Degree of LL.B.

The following are the provisions of Ordance No. 39, General No. 11, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894,[1] began their course of study with a view to graduation in Law:—

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a graduate in Arts of one of the Universities of the United Kingdom; or of any Foreign or Colonial University specially recognised for the purpose by the University Court.

II. The course of study in Law for the Degree of Bachelor of Laws shall include the following subjects:—

(1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.

(2) The Law of Nations or Public International Law, during a course of not less than forty lectures.

(3) Civil Law during a course of not less than eighty lectures.

(4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.

(5) Constitutional Law and History, during a course of not less than eighty lectures.

(6) Conveyancing, during a course of not less than eighty lectures ; or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.

(7) Any two of the following subjects, namely:—International Private Law, Political Economy, Administrative Law, and Forensic Medicine; in each case during a course of not less than forty lectures.

III. (1) The course of study necessary for the Degree of Bachelor of Laws shall extend over three academical years, one of which at least must be spent in the University in which the candidate intends to graduate, the other two may have been spent in any other University or School of Law specially recognised by the University Court.

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[1] Students who began their course previous to 1894 may qualify themselves for graduation in Law under the old regulations, which are given at pp. 227-229 in the *University Calendar* for 1900-1901 and in the *Calendars* for preceding sessions.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of these subjects. Before presenting themselves in any subject the candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the Examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

V. Every candidate for the Degree of Bachelor of Laws shall be examined both orally and in writing on each of the subjects in the course of study above prescribed in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of or Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as Bachelor of Laws in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Laws without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council.

### Degree of B.L.

The following are the provisions of Ordinance No. 40, General No. 12, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894, began their course of study with a view to graduation in Law.

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law (B.L.) unless he be a graduate in Arts of one of the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognised for the purpose by the University Court; or until he shall have passed—

*A*. The Preliminary Examination in the Faculty of Arts, or its equivalent, as specified in Ordinance No. 11 (General No. 6.—Regulations for Degrees in Arts); and

*B*. An Examination in one of the Scottish Universities, to be conducted by the Examiners in Arts, in the following subjects, on the standard of examination for the Ordinary Degree of Master of Arts:—

(1) Logic and Psychology; or, in the option of the candidate, Moral Philosophy.

(2) Latin.

(3) One additional Arts subject, not being one of those which belong also to the Faculty of Law.

And he must have studied at least one of these subjects in a full course in a Scottish University, or an equivalent course in another University approved by the University Court.

II. The course of study in Law necessary for the Degree of Bachelor of Law shall include the following subjects:—

1. Civil Law, during a course of not less than eighty lectures; or a half course in Civil Law where in any University a full course is not available: Provided that in the latter case, candidates who are not already graduates in Arts shall be required to take in addition a course in such subject in Arts as may be sanctioned by the Senatus Academicus, or a half course in one or other of the following branches of Law:—

(*a*) Jurisprudence, General or Comparative.
(*b*) The Law of Nations, or Public International Law.
(*c*) Constitutional Law and History.
(*d*) International Private Law.
(*e*) Mercantile Law.
(*f*) Administrative Law.

2. Law of Scotland, during a course of not less than eighty lectures.

3. Conveyancing, during a course of not less than eighty lectures.

4. Forensic Medicine during a course of not less than forty meetings of the class; or, in the option of the candidate, a half course in one of the branches of Law specified in Sub-section 1 of this section if not already taken.

III. (1) The course of study in Law necessary for the Degree of Bachelor of Law shall extend over two academical years.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The candidate may prosecute his studies during the prescribed two years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognised by the University Court; but one at least of these years must have been spent, and all the examinations in the subjects mentioned in the preceding section must have been passed, at the University in which he intends to graduate.

IV. The candidate for the Degree of Bachelor of Law must undergo examination and pass in the four or more subjects selected by him; but he may present himself for examination in one subject or group of subjects at a time, provided that he has completed the course of study for such subject or group of subjects, and provided also that in that case a higher standard of proficiency shall be exacted.

V. Every candidate for the Degree of Bachelor of Law shall be examined, both orally and in writing, on each of the subjects in the course of study above prescribed, in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Law a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of and Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examinations shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as a Bachelor of Law in any Scottish University under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Law without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council.

## SUBJECTS OF EXAMINATION.

The examinations for LL.B. and B.L. in session 1901-2 will embrace the following books and subjects, viz.:—

*In Civil Law.*—Institutes of Justinian (Ed. Moyle or Sandars) and the Class Lectures; also Dig., Lib. XVIII., Tit. I.—translated and annotated by Mackintosh—Roman Law of Sale.

*In the Law of Scotland.*—In addition to the Class Lectures, the books recommended are Bell's Principles of the Law of Scotland, and Erskine's Principles of the Law of Scotland. In Criminal Law, Macdonald's Criminal Law and Erskine's Principles. Recent editions of the works mentioned should be used.

*In Conveyancing.*—In addition to the Class Lectures, the books recommended are Duff's Feudal Rights, with Supplement; Lectures on Conveyancing, by Menzies; Lectures on Conveyancing, by A. M. Bell; and Craigie's Statutes.

*In Mercantile Law.*—Bell's Commentaries by M'Laren, Vol. I., pages

546 to 678; Carver on Carriage by Sea; Thorburn's Bills of Exchange Act, 1882; Partnership Act, 1890.

*In Jurisprudence, General or Comparative.*—Holland's Jurisprudence (any edition after the fourth); Maine's Ancient Law; Miller's Philosophy of Law. Reference may also be made to Hearn's The Aryan Household, Sidgwick's Elements of Politics, Seeley's Introduction to Politics, Pollock's Jurisprudence, and Holmes' The Common Law.

*In the Law of Nations, or Public International Law.*—Hall's International Law. Candidates are expected to show a general acquaintance with the history of Modern Europe. Pitt Cobbett's Leading Cases, and Tudor's Leading Cases in Mercantile and Maritime Law will be found useful for reference.

NOTE.—Candidates under the old regulations for LL.B. are required to sit also at the papers on Jurisprudence and International Private Law.

*In International Private Law.*—Rattigan's Private International Law, with the Scots cases referred to in the Class Lectures.

*In Constitutional Law and History.*—(1) The Outlines of English Constitutional History; (2) Existing Constitutional Law. Authorities recommended: Taswell-Langmead's English Constitutional History; Anson's Law and Custom of the Constitution, Vol. I.; Dicey's Law of the Constitution; Leading Cases in Constitutional Law, by Thomas.

NOTE.—Candidates for B.L. will only be examined on the half course of lectures they have attended, and on Taswell-Langmead's English Constitutional History.

*In Forensic Medicine*—Signs of Death with relation to Crime; Proximate Causes of Death; Medico-legal Forms of Death; Identity; Survivorship; Wounds; Blood-stains and their Detection; Insurance; Sexual Crimes:—Rape and Criminal Abortion; Pregnancy in its Medico-legal aspects; Infanticide and Concealment of Pregnancy; Divorce in its Medico-legal relations; Legitimacy and Paternity; Evidence of Poisoning; Poisoning by Antimony, Sulphuric Acid, and Opium; Alcoholism in its Medico-legal aspects; Insanity. (*Text-books*, Principles of Forensic Medicine: Guy and Ferrier; or Manual of Forensic Medicine: Dixon Mann.)

*In Political Economy and other Arts Subjects.*—The subjects of examination for the Degree of M.A.

No candidate for the Degree of B.L. is admitted to an examination in Law subjects until he has passed in all the subjects of the preliminary examinations, and not fewer than two subjects in Law can be taken up at one examination, except in case of candidates for the Degree of B.L. under the new regulations.

## TABLE OF EXAMINATIONS FOR DEGREES IN LAW, TO BE HELD DURING SESSION 1901-2.

| Fee.[1] | Names to be given in and Fees paid to Assistant Clerk (Matriculation Office). Date.[2] | Subjects of Examination. | Dates of Written Examinations and Hours at which the different Papers will be set. | |
|---|---|---|---|---|
| | | | September-October, 1901. | March-April, 1902. |
| £1 1s. on each entry for Examination, and [illegible], if any, before Graduation. Total Fees, LL.B. [illegible], B.L. [illegible] | 18th September or 11th March. | Constitutional Law, | Mon., 30th Sep., 9—12 noon. | Mon., 31st March, 9—12 noon. |
| | | Civil Law, | .. .. .. 2—5 p.m. | .. .. .. 2—5 p.m. |
| | | Scots Law, | Tues., 1st Oct., 9—12 noon. | Tues., 1st April, 9—12 noon. |
| | | Public Internat. Law, | .. .. .. 2—5 p.m. | .. .. .. 2—5 p.m. |
| | | Jurisprudence, | Wed., 2nd .. 9—12 noon. | Wed., 2nd .. 9—12 noon. |
| | | Private Internat. Law, | .. .. .. 2—5 p.m. | .. .. .. 2—5 p.m. |
| | | Political Economy, | .. .. .. 6—9 p.m. | .. .. .. 6—9 p.m. |
| | | Conveyancing, | Thurs., 3rd .. 9—12 noon. | Thurs., 3rd .. 9—12 noon. |
| | | Forensic Medicine, | .. .. .. 2—5 p.m. | .. .. .. 2—5 p.m. |
| | | Mercantile Law, | Friday, 4th .. 9—12 noon. | Friday, 4th .. 9—12 noon. |

For Dates of the Preliminary Examination and of the Examinations in Arts subjects necessary for B.L., see pp. 168 and 190.

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[1] Under the old regulations the fee for LL.B. is [illegible], for B.L. [illegible]

[2] When names are not given in and fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary certificates, &c., lodged.

## 6.—GRADUATION IN DIVINITY.

### Degree of Bachelor of Divinity.

In Ordinance No. 63 the Universities Commission laid down the following regulations for this degree :—

I. No one shall be admitted to examination[1] as a candidate for the Degree of Bachelor of Divinity (B.D.) in any University unless he be (1) a graduate in Arts of that University, and have taken a complete Theological Course in a Scottish University or Universities, or in an institution or institutions specially recognised for the purpose of this ordinance by the University Court, or partly in a Scottish University or Universities and partly in such institution or institutions;[2] or (2) a graduate in Arts of any Scottish University or other University specially recognised as aforesaid, and have completed his Theological Course, of which not less than two years' attendance shall have been given in the University in which he presents himself for examination.

II. The examination shall in all cases be conducted at the seat of the University granting the degree, and the Examiners shall be the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.[1]

III. Every student who at the time when this ordinance shall come into operation shall have completed a part of his Theological Course with a view to graduation as Bachelor of Divinity in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Divinity without complying with the provisions of this ordinance.

IV. The Degree of Bachelor of Divinity shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

This degree is conferred on such qualified candidates as have satisfied the Examiners of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.
II. Divinity, Church History, and Biblical Criticism.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their course in Arts, may present themselves for examination in the First Department. Candidates are not admitted to examination in their Second Department *until they have completed their Theological Course.*

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[1] Ordinance No. 154 gives the Senatus Academicus power to admit candidates to examination in not more than three of the subjects, after the completion of the second session of attendance on their Theological course.

[2] The University Court has recognised *pro tanto* every Theological College in the United Kingdom having a distinct staff of teachers for the separate subjects, in so far as the Theological course is subsequent to the Arts course.

The scheme of examination for session 1901-1902 is as follows:—

I. FIRST DEPARTMENT—

(*a*) *Hebrew.*—(1) Jeremiah i.–xxv.; (2) Psalms xlii.–lxxii.; (3) Portions of unpointed Hebrew to be punctuated and translated; (4) Translations from English into Hebrew.

**Books which may be consulted:**

The relative portions of Driver's Introduction to the Literature of the Old Testament, in which will be found lists of the Commentaries on the books prescribed; 'Men of the Bible' Series, Jeremiah, by Cheyne; Müller's or Davidson's Hebrew Syntax; Robertson's Hebrew Exercises.

(*b*) *New Testament Exegesis.*—(1) Introduction to the Gospel according to Matthew; (2) Exegesis of Matthew xxvi. 21–xxviii. 20, with critical comparison of the parallel passages in Mark and Luke; (3) Exegesis of the Epistles to the Ephesians and Colossians.

**Books which may be consulted:**

(1) and (2) The relative Commentaries of Meyer, De Wette, Morison, or Alford; Bleek, Synoptische Erklärung der drei ersten Evangelien; (3) The Commentaries of Meyer, Alford, Ellicott.

(*c*) *Apologetics.*—(1) Philosophy of Religion from the English Deists to Jacobi; (2) Pantheism, Deism, Secularism, Agnosticism; (3) Revelation, Miracles, Person of Christ

**Books which may be consulted:**

(1) Pünjer's Christian Philosophy of Religion from the Reformation to Kant; (2) Flint's Antitheistic Theories, Bruce's Apologetics, and Ward's Naturalism and Agnosticism; (3) Revelation and Miracles in connection with the Philosophy and Science of the Nineteenth Century; the Person of Christ as in the recent N.T. Theologies (Weiss, Beyschlag, Stevens, Bruce, Stalker, Somerville).

II. SECOND DEPARTMENT—

(*a*) *Divinity.*—(1) The Doctrine of Sin; (2) The Atonement; (3) The Church and the Sacraments *or* Christian Ethics.

**Books which may be consulted:**

(1) The Systematic Theologies of Hodge, Dorner, and Oosterzee; Julius Müller's Christian Doctrine of Sin, Candlish's Biblical Doctrine of Sin and A. A. Hodge's Outlines; (2) Crawford and Dale on the Atonement; Ritschl's History and Doctrine of Reconciliation and Atonement; (3) Hooker's Ecclesiastical Polity; Halley on the Sacraments; Lilley on the Lord's Supper; Dale on Baptism, and the Systematic Theologies *as above.*—Christian

Ethics; Luthardt's History down to the Reformation; Martensen's and Newman Smyth's Christian Ethics.

(*b*) *Church History.*—History of the Western Church, and of the Papacy from 1049 to 1303.

Books which may be consulted:

Church Historians, Baronius, Hergenröther, Neander, Gieseler, Moeller; Milman, History of Latin Christianity; Gibbon; Stubbs, Constitutional History of England; Villemain, Life of Pope Gregory VII.; Eras of the Christian Church—'The Age of Hildebrand' (Vincent), and 'The Age of the Crusades (Ludlow); W. W. R. Stephens, Hildebrand and his Times; Morison, Life and Times of S. Bernard; Dean Church, S. Anselm; Keightley, History of the Crusades; Maitland, Facts and Documents of the Waldenses; Herbert de Bosham, Vita S. Thomae Cantuariensis; James Craigie Robertson and E. A. Freeman on S. Thomas Becket. Gregorovius, Stadt Rom.

(*c*) *Biblical Criticism.*—(1) Textual Criticism. (2) Hermeneutics.

Books which may be consulted:

(1) Davidson, Biblical Criticism; Tregelles, Treatise in Horne's Introduction, Vol. IV.; Scrivener, Introduction to the Criticism of the New Testament (fourth edition); Westcott and Hort, Prolegomena to the Greek Testament. (2) Davidson, Sacred Hermeneutics (1843), or Treatise on Interpretation in Horne's Introduction, Vol. II.; Ernesti, Institutio Interpretis; Immer, Hermeneutik des Neuen Testamentes.

The scheme of examination for session 1902-1903 will be as follows:

I. First Department—

(*a*) *Hebrew.*—(1) Jeremiah xxvi.-lii.; (2) Psalms lxxiii.-lxxxix.; (3) Portions of unpointed Hebrew to be punctuated and translated; (4) Translations from English into Hebrew.

(*b*) *New Testament Exegesis.*—(1) Introduction to the Acts of the Apostles; (2) Exegesis of Mark i. 1-viii. 26, with critical comparison of the parallel passages in Matthew and Luke; (3) Exegesis of the Pastoral Epistles.

(*c*) *Apologetics.*—(1) Philosophy of Religion; (2) Apologetics, generally; (3) Butler's Analogy.

II. Second Department—

(*a*) *Divinity.*—(1) The Doctrine of God; (2) Christology; (3) Biblical Theology, *or* The Church and the Sacraments.

(*b*) *Church History.*—From the birth of Wycliffe (*c.* 1324) to the publication of Luther's Thesis on Indulgences (1517).

(*c*) *Biblical Criticism.*—(1) Textual Criticism; (2) Hermeneutics.

## TABLE OF EXAMINATIONS FOR DEGREES IN DIVINITY, FOR BLACK THEOLOGICAL FELLOWSHIP, FOR FINDLATER SCHOLARSHIP, AND FOR JAMIESON PRIZE, TO BE HELD DURING SESSION 1901-2.

| Department. | Names to be given in and Fees paid to Assistant Clerk (Matriculation Office) Date.¹ | Fee. | Dates of Written Examinations and Hours at which the different Papers will be set. | | |
|---|---|---|---|---|---|
| First. | 16th October, 1901. | £2 12s. 6d. | Tues., 22nd Oct., 1901. | Hebrew, - - - | 10—1 p.m. |
| | | | ,, ,, | Hebrew, - - | 2—5 p.m. |
| | | | Wed., 23rd Oct., 1901. | Apologetics, - | 10—1 p.m. |
| | | | ,, ,, | New Testament Exegesis, | 2—5 p.m. |
| Second. | 28th March, 1902. | £2 12s. 6d. | Thurs., 3rd April, 1902 | Divinity, - - | 10—1 p.m. |
| | | | ,, ,, | Textual Criticism, - | 2—5 p.m. |
| | | | Fri., 4th April, 1902. | Church History, - | 10—1 p.m. |
| | | | ,, ,, | Hermeneutics, - | 2—5 p.m. |

¹ Forms of application for examination may be obtained at the Matriculation Office. These forms, when filled up, must be forwarded by the candidates to the Dean of the Faculty of Divinity, along with certificates of attendance on the required classes, and, having been certified by him, must then be transmitted to the Assistant Clerk (Matriculation Office) on or before the date prescribed above. In entering for the Second Department candidates from other schools must produce, in addition to class certificates, evidence that they have completed, or are about to complete, their Theological Course.

## 7.—HONORARY DEGREES.

The powers of the Senatus Academicus to grant Honorary Degrees are regulated by Ordinance No. 41 of the Universities Commission (1889) of date 13th December, 1893, which received the approval of Her Majesty in Council on 28th May, 1894.

### Degree of Doctor of Divinity.

The following are the regulations for the Degree of D.D. :—

I. At the commencement of every session, the Senatus Academicus in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Divinity, consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and three other Professors to be selected by the Senatus Academicus from the other Faculties.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus Academicus for the degree; but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present a reasoned report, embodying its recommendations to the Senatus.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz.:—

(*a*) Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.

(*b*) Whether he has published a contribution of merit to Theological Literature.

(*c*) Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Divinity shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

### Degree of Doctor of Laws.

The following are the regulations for the Degree of LL.D. :—

I. At the commencement of every session, the Senatus Academicus in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Laws, consisting of the Principal and such Professors selected from the various Faculties as the Senatus Academicus may determine, provided that the total number of the committee shall not exceed twelve.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus for the degree, but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present to the Senatus a reasoned report embodying its recommendations.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz.:—

(*a*) Whether he is an alumnus of this or any other University, and whether he already holds any academical degree.

(*b*) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.

(*c*) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Laws shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

## Academic Dress.

### GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by graduates of the University of Glasgow are of black silk or stuff, of similar shape to those appropriated to the corresponding degrees in the other British Universities.[1]

The Hoods for the different degrees, as approved by the University Court on 19th May, 1893, are as follows:—

B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).

M.A., Black Silk, lined with Red Purple Silk.

B.Sc., Black Silk, bordered with Scarlet Cloth and lined with Gold Coloured Silk (colour of Whin Blossom—*Ulex Europæa*).

D.Sc., Scarlet Cloth, lined with Gold Coloured Silk.

B.L., Black Silk, with an inside border of Venetian Red Silk (colour of Clove Carnations).

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[1] The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

LL.B., Black Silk, bordered with Scarlet Cloth and lined with Venetian Red Silk.

LL.D., Scarlet Cloth, lined with Venetian Red Silk.

M.B. and C.M., Black Silk, bordered with Scarlet Cloth and lined with Scarlet Silk.

M.D., Scarlet Cloth, lined with Scarlet Silk.

B.D., Black Silk, bordered with Scarlet Cloth and lined with a light Cherry Silk.

D.D., Scarlet Cloth, lined with White Silk.

### Under-Graduates.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII., of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to academic dress; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the academical dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper academic dress for students in Arts is the red gown.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown.

### Ceremony of Graduation.

The following are the regulations adopted by the Senate :—

All degrees honorary or gained by examination, shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for graduation are required to appear in black gowns with the hoods appropriate to their degrees; those who are already graduates, in the costume proper to their previous degree.

## *IX.—BURSARIES, SCHOLARSHIPS, Etc., PRIZES.*

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, etc., by a "preference" the Senate understand, in every instance, a preference *ceteris paribus*.

The following is the general ordinance issued by the Universities Commission with regard to Bursaries, Scholarships, and Fellowships, which have taken effect prior to the 30th day of August, 1864:—

### ORDINANCE No. 57 (GENERAL, No. 19).—REGULATIONS AS TO BURSARIES, SCHOLARSHIPS, AND FELLOWSHIPS.

### GENERAL.

I. For the purposes of this ordinance, bursaries in the Faculty of Arts (hereinafter referred to as bursaries in Arts) shall be deemed to be the bursaries now attached to the said Faculty by Deed of Foundation or by custom.

II. Bursaries in Arts heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study approved by the Senatus Academicus in subjects included in the curriculum for Degrees in Arts or in Pure Science.

III. All bursars in Arts, subject to the provision as to the fourth year of tenure contained in the immediately preceding section, shall attend in each year at least two classes qualifying for graduation in Arts, and shall duly perform the work of these classes: Provided (1) that, for the purposes of this section, the classes known as Middle Classes, so long as the same exist, may be attended in place of classes qualifying for graduation; and (2) that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to permit such bursars as they shall from time to time select to attend classes qualifying for graduation in Pure Science in place of classes qualifying for graduation in Arts.

IV. It shall be in the power of the Senatus Academicus to suspend or deprive a bursar, scholar, or fellow on the ground of misconduct, or, if it think fit, on the ground of his failure to obtain class certificates, or to produce such other evidence as may be required that he is prosecuting his studies in a manner satisfactory to the Senatus Academicus.

V. Bursaries in Divinity heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study in Divinity approved by the Senatus Academicus.

VI. In the case of a bursary, scholarship, or fellowship, not in the gift of a patron, becoming vacant by forfeiture or otherwise before the expiry of the period of tenure, it shall be in the power of the Senatus

Academicus, with the approval of the University Court, to determine as to the disposal thereof, or of the income thereof, during the remainder of the said period.

VII. Any bursary tenable in several Faculties successively shall not be attached to any one of such Faculties in any year other than a year in which in ordinary rotation it would have been attached to such Faculty.

VIII. It shall be in the power of the Senatus Academicus to require, as a condition of tenure, any holder of a scholarship or fellowship who is a graduate to engage in teaching within the University or to conduct tutorial classes, unless he shall satisfy the Senatus Academicus that he is pursuing special higher studies, or that he is engaged in original research.

IX. Each Examiner at competitions for bursaries, scholarships, or fellowships shall receive suitable remuneration, and it shall be in the power of the University Court to charge the funds of bursaries, scholarships, or fellowships with the necessary expenses of examination.

### Open Bursaries.

X. (1) The subjects of the examination for open bursaries in Arts of the first year shall be the subjects prescribed for the Preliminary Examination in Arts instituted by Ordinance No. 11 (General, No. 6—Regulations for Degrees in Arts), Section III. The examination shall be taken at the Spring or the Autumn Preliminary Examination, according as the University Court shall determine, and shall be upon the same papers: Provided that the Senatus Academicus may, for purposes of competition, subject candidates to any further test that may be deemed necessary.

(2) Candidates for such bursaries who select in the Bursary Competition Examination, Latin, Greek, or Mathematics, shall, for the purposes of the competition, take the papers of the higher standard in those subjects: Provided that nothing herein contained shall prevent a candidate passing the Preliminary Examination if he complies with the provisions of Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), and Ordinance No. 44 (General, No. 16.—Regulations for Degrees in Arts Supplementary to Ordinance No. 11).

(3) No candidate shall, except as hereinafter provided, obtain a bursary in Arts who shall not have passed the Preliminary Examination in Arts: Provided that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to admit to a bursary in Arts a candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as bursar: Provided also that this power shall lapse after the expiry of seven years from the date hereof unless it be renewed by ordinance.

XI. It shall be competent for the Senatus Academicus, with the approval of the University Court, from time to time to make regulations as to the conditions under which persons shall be eligible to compete for bursaries of the first year in the Faculties of Arts and

Science: Provided always that no student, who has during a winter or summer session attended any class qualifying for graduation in the said Faculties in any Scottish University, shall be eligible to compete for such bursaries.

XII. (1) In determining the marks to be assigned to the several subjects of the Bursary Competition Examination, English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject.

(2) Candidates may select not more than five subjects for examination from the subjects of the Preliminary Examination in Arts, and no candidate shall be credited with marks in any subject in which he has not obtained such proportion of the total number of marks assigned to that subject as the Senatus Academicus may from time to time prescribe.

XIII. The Senatus Academicus, in determining the results of the Bursary Competition Examination, may award bursaries in Arts of the first year in respect of exceptional distinction in any one branch of study: Provided that this power shall not be exercised with regard to more than two bursaries in any one year.

XIV. Bursaries open for competition to students entering on their first session of attendance in the Faculty of Medicine shall be tenable only by those students who have passed the Preliminary Examination in Medicine, or who have been exempted therefrom in accordance with the provisions of Section VI. of Ordinance No. 13 (St. Andrews, No. 1.—Regulations for Degrees in Medicine), Ordinance No. 14 (Glasgow, No. 1.—Regulations for Degrees in Medicine), Ordinance No. 15 (Aberdeen, No. 1.—Regulations for Degrees in Medicine), or Ordinance No. 16 (Edinburgh, No. 1.—Regulations for Degrees in Medicine), and who have not attended any class qualifying for graduation in Medicine: Provided always that the last-mentioned condition shall not be held to exclude a candidate who may have attended the class of Physics, Chemistry, Botany, or Zoology, otherwise than as part of a graduation course in Medicine.

### Restricted and Preferential Bursaries.

XV. Candidates for bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts prescribed by Ordinance No. 11 (General, No. 6.—Regulations for Degrees in Arts), Section III., and no bursary shall, except as hereinafter provided, be awarded to any candidate who shall not have passed the Preliminary Examination in Arts: Provided that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to admit to a bursary in Arts not awarded by open competition a candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as bursar.

XVI. In the case of a bursary, scholarship, or fellowship in the gift of a patron, including bodies corporate and not corporate, becoming vacant by forfeiture or otherwise during the period of tenure, the Senatus Academicus shall forthwith give notice of the vacancy to the patron, who may, within such time as the Senatus shall fix, appoint a qualified student to fill the vacancy ; and if he fail to do so within such time, the Senatus Academicus may select a deserving student to fill the vacancy until the next Preliminary Examination at which bursaries are awarded, when the patron's right to present shall revive.

XVII. On the occurrence of a vacancy in any bursary in the gift of a patron, including bodies corporate and not corporate, at the expiry of the period of tenure, the Senatus Academicus shall give notice of such vacancy to the patron of the bursary and of the date fixed for the Preliminary Examination next ensuing at which bursaries are awarded ; and the patron may, if he think fit, submit to the Senatus the names of two or more candidates eligible for such bursary, who shall undergo an examination to be conducted by the Examiners for open bursaries in the University, and the result of the examination shall be communicated to the patron for his information, who shall thereafter present to the bursary.

XVIII. In the case of a bursary in the gift of a patron, including bodies corporate and not corporate, if no qualified person be presented before the date of the Preliminary Examination intimated in terms of the immediately preceding section, the bursary shall be open to unrestricted competition for that year ; and in the event of no qualified person being presented as before provided at the beginning of the next academical year, the Senatus may either throw open the bursary to unrestricted competition, or continue the same to the student to whom it had previously been awarded : Provided that this section shall not apply in cases where the patron shall previously satisfy the Senatus Academicus that proper arrangements have been made for the selection of a bursar.

### Miscellaneous.

XIX. In the case of bursaries designed for poor students, the Senatus Academicus shall satisfy itself that the circumstances of candidates are such as to entitle them to the benefit of the endowment, and for this purpose the Senatus may require that a declaration be made by a parent or guardian, or by the minister of religion or schoolmaster, of each candidate as the Court shall think fit.

XX. [Preferences and restrictions cancelled. These have been noted under each bursary concerned.]

XXI. Nothing herein contained shall apply to any bursary or endowment granted by any incorporation or society whose funds, capital or revenue, have been and are contributed and paid by the members of such incorporation or society by way of entry monies or other fixed or stated contributions.

XXII. The Senatus Academicus, with the approval of the University Court, shall prescribe the subjects of examination and the conditions of competition for bursaries, scholarships, or fellowships, in so far as the same are not prescribed by ordinance or by deed of foundation.

XXIII. The provisions of any Ordinance of the Commissioners under the Universities (Scotland) Act, 1858, in so far as inconsistent with the provisions of this ordinance, are hereby repealed.

XXIV. This ordinance shall come into force from and after the 1st day of January, 1895, or as soon thereafter as it may be approved by Her Majesty in Council: Provided that nothing herein contained shall extend to, or affect the interests of, any person holding a bursary, scholarship, or fellowship at the date of its coming into effect. [Issued on 30th July, 1894; approved on 11th May, 1895.]

### BURSARIES FOR WOMEN.

On 10th March, 1898, the University Court, in virtue of the power conferred by Ordinance No. 58, Section 1, resolved to appropriate to competition, without restriction as to sex, all the open bursaries tenable in Arts, Science, or Medicine, which have taken effect prior to 30th August, 1864. To a number of other Bursaries either men or women may be appointed. In the following lists of Bursaries arranged according to Faculties, italics are used in printing the names of those Bursaries for which both men and women are eligible.

## A.—BURSARIES ARRANGED ACCORDING TO FACULTIES.

### BURSARIES IN THE FACULTY OF THEOLOGY.

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

| Foundation. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| | | Years. | |
| Adam, John, | 3 | 4 | £17 |
| Black, | 2 | [illegible] | [illegible] |
| Boyd and Sanders, | 1 | 3 | £13 16 8 |
| Boyd and Wilson, | 1 | 3 | £24 6 8 |
| Brown or Eccles, | 2 | 4 | £25 |
| Dundonald, | 6 | 3 | £41 2 6 |
| Gilhagie and Struthers, | 1 | 3 | £19 12 8 |
| Hamilton, | 3 | 3 | £25 |
| Hastie, | 2 | 3 | £25 |
| Logan, | 1 | 3 | £17 |
| Lorimer, | 4 | 3 | £25 and £19 |
| Lumsden, | 1 | 4 | £16 |
| Macfarlane, James, | 1 | 3 | £23 |
| Marshall, | 1 | 4 | £15 |
| Morgan, | 8 | 1 | £20 |
| Muir, | 1 | 3 | £32 |
| Muir Divinity, | 2 | 2 | £25 |
| Notman, | 1 | 3 | £18 |
| Ross, John, jun., | 1 | 3 | £30 |
| King William's, | 2 | 3 | £20 |

### BURSARIES IN THE FACULTY OF LAW.

| | | | |
|---|---|---|---|
| Macfarlane, Robert, | — | — | — |
| Merchants' House, | 1 | 3 | £25 |
| Walkinshaw-Young, | 1 | 2 | £16 |
| Major Young's Fund, | 2 | 6 and 2 | £22 |

## BURSARIES IN THE FACULTY OF MEDICINE.

| Foundation. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| | | Years. | |
| Arthur,[1] | 1 | 3 | £20 |
| Brisbane, | 1 | 4 | £42 |
| Davidson, | 1 | 3 | £26 |
| *Gardiner*,[2] | 1 | 2 | £13 10/ |
| *Gibson, Dr. Thomas*,[2] | 1 | 4 | £32 |
| Glasgow Highland Society, | 7 | 4 | £25 |
| *Logan*, | 1 | 4 | £17 |
| Lorimer, | 4 | 3 | £25 and £19 |
| Macarthur, | 1 | 2 | £20 |
| Macfarlane, John, | 1 | 3 | £40 |
| *Mackintosh*,[2] | 1 | 1 | £31 |
| Marshall, | 1 | 4 | £15 |
| Merchants' House, | 2 | 4 | £25 |
| Monteith, John, | 2 | 2 | £21 |
| Paterson, James A., | 8 | 4 | £35 and £25 |
| Rainy, | 2 | 2 | £20 |
| Walton, | 1 | 4 | £34 |
| Weir, Andrew, | 1 | 1 | £15 |

## BURSARIES IN THE FACULTY OF SCIENCE.

| | | | |
|---|---|---|---|
| Agricultural College, | 6 | 3 | £50 and £40 |
| Buchanan Society (Arts or Science), | 16 | 4 | £30 |
| Cuthbertson, Donald, | 1 | 3 | £30 |
| Elder, | 2 | 2 | £50 |
| Kerr, Malcolm, | 2 | 3 | £20 |
| M'Ewen, Malcolm (Arts or Science), | 1 | 4 | £16 |
| Metcalfe, | 4 | 2 | £25 |
| Muir (Civil Engineering), | 2 | 1 | £12 10/ |
| Pender Memorial, | 1 | 1 | £30 |
| Strang, | 4 | 3 | £20 |
| Young, George, | 1 | 1 | £35 |

## BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend at least two classes each session.

| | | | |
|---|---|---|---|
| Adam, James, | 2 | 4 | £11 |
| Adamson, | 1 | 3 or 4 | £20 |
| Barbour (Kilbarchan), | 1 | 3 | £20 |
| Biggart Memorial, | 10 | 4 | £25 |
| Black, | 2 | 4 | £18 |
| Blackquarry School, | 1 | 4 | £12 |
| Brand, | 3 | 4 | £24 |
| Brown, Ebenezer, | 1 | 3 | £40 |
| Browne (Ayrshire), | 2 | 4 | £22 |
| Brown-Paton, | 2 | 3 | £16 |
| Buchanan, | 2 | 3 | £13 |
| Buchanan Society (Arts or Science), | 16 | 4 | £30 |
| Clark, John (Mile-end), | 24 | 4 | £30 |

[1] Open to women students only. [2] Both men and women are eligible

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

| FOUNDATION. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| | | Years. | |
| Cowan, | 1 | 3 | £26 13s 4d |
| Craig, - | 1 | 4 | £25 |
| Craig, Archibald, - | 1 | 2 | [illegible] |
| *Crawford and Brown,* | 1 | 4 | £19 1s 4d |
| Davidson, - | 1 | [illegible] | £25 |
| Duncan's Bute, - | 2 | 4 | £52 |
| Dundonald, | 8 | 4 | £40 |
| Ewing, James, | 4 | 4 | £20 |
| *Forster,*[1] | [illegible] | 4 | £25 |
| *Foundation,*[1] - - - - | 2 | 4 | £20 |
| Fullarton of Overton, - | 6 | 2 | £22 |
| *Gardiner,*[1] - - - | 1 | 2 | £15 10s |
| *Gartmore,*[1] | 1 | 3 | £21 |
| *General Council,*[1] | 4 | 3 or 2 | £20 |
| *Glasgow City Educational Endowments,* | 20 | 4 or 2 | £25 |
| Grant, George, - - - - - - | 1 | 3 or 4 | £18 |
| *Grant, Glenmoriston, Inv.,*[1] | 1 | 4 | £18 |
| Hamilton, - - - - - - - | 3 | 3 | £20 |
| Hamilton Educational Trust, | 3 | 3 | £15 |
| Hannay, - - - - - - - | [illegible] | 3 | £15 |
| *Haldane,*[1] | 1 | 4 | £25 |
| Highland Society, Glasgow, | 12 | 4 | £20 |
| Howison and Gilchrist, | 1 | 4 | £17 |
| Hutchesons' Educational Trust, - | 20 | 4 | £20 |
| Hyndford and Ross, | 1 | 4 | £10 10s |
| Jaffrey, John Ferguson, | 1 | 2 | £34 |
| Kerr, Malcolm (Nat. Phil.), | 1 | 3 | £30 |
| Laing, Alexander, - - - - - | 1 | 3 | £20 |
| *Laing, James,*[1] - - - - - - | 8 | 4 | £25 |
| Leadbetter, - - - - - - - | 1 | 4 | £9 |
| Leyden, John, - - - - - - | 1 | 3 | £13 |
| Lochhead, James, - - - - - | 1 | 3 | £16 |
| Lochhead and Mitchell, - - - | 2 | 4 | [illegible] |
| Lorimer (4 Phil. 4 Math.) - | 8 | 3 | £25 and £19 |
| Lusk, - - - - - - - - | 1 | 3 | £30 |
| M'Crie, - - - - - | 4 | 4 | £25 |
| M'Culloch, - | 1 | 4 | £17 |
| MacDougall, - | 3 | 3 | £35 |
| M'Ewen, Malcolm (Arts or Science), - | 1 | 4 | £16 |
| MacGrouther, - - - - - - | 2 | 4 | £20 and £15 |
| M'Kissack, - - - - - - | 1 | 4 | £20 |
| *Maclean Trust* (Arts), | 4 | 4 | £25 |
| Maitland Club, - - - - - | 1 | — | — |
| *Marshall Trust,* | 20 | 5 | £30 |
| Menzies, - | 4 | 4 | £47 |
| Merchants' House, - - - - - | 1 | 4 | £25 |
| Monteith, - - - - - - - | 3 | 3 | £34 |
| Morgan, - | 16 | 1 | £20 |

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[1] Both men and women are eligible.

### BURSARIES IN THE FACULTY OF ARTS—*Continued.*

| Foundation. | No. of Bursaries. | Period of Tenure. | Approximate Annual Value of each. |
|---|---|---|---|
| | | Years. | |
| Muir (Mathematics, Senior), | 1 | 1 | £18 |
| Muir (Mathematics, Junior), | 1 | 2 | £9 |
| Paterson, James, | 1 | 4 | £20 |
| Paterson, James A., | 7 | 3 | £35, £25, and £20 |
| Patrick, | 3 | 4 | £32 |
| Perthshire Society, | 1 | 3 | £25 |
| Pollock, | 3 | 3 | £40 |
| Ramsay-Walker, | 2 | 4 | £12 |
| Scott, | 3 | 4 | £25 |
| Stevenson of Dalry, | 2 | 4 | £32 |
| *Stewart,*[1] | 3 | 4 | £15 |
| Thomson, James (Philosophical), | 1 | 2 | £9 |
| *King William's,*[1] | 2 | 3 | £15 |

### BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.

| | | | |
|---|---|---|---|
| Ardkinglass, | 1 | 6 | £9 10/ |
| Buchanan (Bellfield), | 2 | 7 | £47 |
| Leighton, | 1 | 3 | £18 |
| Williams, | 4 | 3 or 4 | £40 |

### BURSARY IN THE FACULTIES OF ARTS OR THEOLOGY.

| | | | |
|---|---|---|---|
| *Lamb,*[1] | 1 | — | £12 |

### BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.

| | | | |
|---|---|---|---|
| Macdonald, | 2 | 4 | £15 |
| William Whyte, | 4 | 4 | £25 |

### BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.

| | | | |
|---|---|---|---|
| *Armagh,*[1] | 3 | 3 | £45 |
| Bell, | — | — | £50 |
| Hutcheson, Thomas, | 1 | 4 | £11 2/2¾ |

### BURSARIES IN ANY FACULTY.

| | | | |
|---|---|---|---|
| Ayrshire Society, | 4 | 3 | £15 |
| Celtic Society (Campbell), | 1 | 1 or more | £5 |
| Denny, | 4 | 4 | £30 |
| *Dumfriesshire Society,*[1] | 2 | 4 | £15 |
| Ferguson, James, | 2 | 2 | £85 |
| Forrest, | 5 | 5 or less | £22 |
| Gibson, John, | 2 | 3 | £20 |
| Kintyre (Ker), | 1 | 3 | £20 |
| Kintyre (Alexander Love), | 1 | 4 | £11 |
| M'Kechnie, | 2 | 4 | £35 |
| *Pratt,*[1] | 2 | 4 | £20 |
| Shearer, | 3 | 3 | £30 |
| Smith, | 1 | 4 | £18 |
| Stillie, | 1 | 1 | £5 |
| *Taylor,*[1] | 2 | 4 | £7 |

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[1] Both men and women are eligible.

## B.—BURSARIES (ALPHABETICALLY ARRANGED).

JAMES ADAM BURSARIES (*Arts*).—These bursaries were founded by the Rev. James Adam, Minister of Cumbrae, who died in 1830, and were originally three in number. In appointing to one of the bursaries, preference was given to the kindred of the founder, and in appointing to another to students of the name of Adam. By Ordinance No. 80 of the Universities Commission (1889) these restrictions were removed, and the three bursaries were combined into two of equal value. The bursaries are tenable for four years, but if a bursar graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to these bursaries. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbrae, the exercise of their patronage being regulated by Ordinance No. 57, Sections xv.-xviii. Value, about £11 per annum each.

*Bursars*—²Thomas Armstrong, 1899 ; Arthur A. Cowan, 1899.

JOHN ADAM BURSARIES (*Theology*).—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. The founder gave a preference to his own kindred and to students of the name of Adam or Dollar. By Ordinance No. 57 of the Universities Commission (1889) this preference was cancelled. They are open to competition to students in Theology of the first year; and, after examination, are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years, subject to the provisions of Ordinance 57, Section v. Value, £17 to each bursar. (Three vacancies.)

*Bursars*—²Dugald Carmichael, 1898 ; ¹Alexander Macdonald, 1898.

ADAMSON BURSARY (*Arts*).—This Bursary was founded by the Rev. David Adamson, minister of Fintry, in 1674, for a student in Philosophy, and was restricted to sons of freemen in one of the seven Incorporate Trades of Stirling. This restriction was removed by Ordinance No. 57 of the Universities Commission (1889). The Bursary is tenable for four years by a student entering the Greek Class, for three years by a student entering the Logic Class; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500.

*Bursar*—¹ David Forfar, 1897.

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[1] Vacant through lapse of time.
[2] Bursar's course finished.

AGRICULTURAL COLLEGE BURSARIES (*Science*).—The Governors of the West of Scotland Agricultural College have instituted a scheme of Bursaries, of the value of £50 and £40 respectively, each tenable for three years. They are awarded on the results of the Science Preliminary Examination held in Autumn. Bursars must attend the curriculum of classes in Glasgow, and comply with the conditions required to qualify for the degree of B.Sc. in Agriculture of the University of Glasgow, and must further present themselves at the examinations for the National Diploma in Agriculture. Further particulars may be ascertained by applying to Principal Wright, 6 Blythswood Square, who will receive applications up to 1st September.

*Bursars*—Alexander Graham, 1899; Alexander B. Lamont, 1900; William R. Merry, 1900.

ARDKINGLASS BURSARY (*Arts and Theology*).—This Bursary was founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader of Barndennoch, Glencairn, Dumfriesshire, had by his Will set aside for pious uses, and was tenable for eight years—five in Languages and Philosophy, and three in Divinity. It is now regulated by Ordinance No. 87 of the Universities Commission (1889). A bursar may hold the Ardkinglass Bursary for three years in the Faculty of Arts, and for three years in the Faculty of Divinity, and no longer; but a bursar, who at the end of the third year of his tenure has failed to pass all the examinations necessary for graduation in Arts, shall forfeit the Bursary, and in that event it shall be lawful for the patron to nominate a candidate, who shall be a Master of Arts, or shall have passed the examinations necessary for admitting him to that Degree, and shall be entering on his course of study in the Faculty of Divinity; failing such nomination by the patron, the Bursary shall be awarded by the Senate to a candidate qualified as aforesaid, under such conditions as the Senate shall prescribe, but a Bursar thus nominated shall not hold the Bursary for more than three years. In other respects the provisions of Ordinance No. 57 apply to the Ardkinglass Bursary. Patron, Mr. Geo. F. W. Callander of Ardkinglass and Craigforth. Value, £9 10s.

*Bursar*—Thomas Winning, 1898.

ARMAGH BURSARIES (*Theology, Law, or Medicine*).—Three in number, founded in 1733 by Hugh Boulter, Archbishop of Armagh, who endowed the College with the annual rent of certain lands in the neighbourhood of Glasgow. By ordinance of the Universities Commission (1858) these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed.

Further regulations were laid down in Ordinance No. 92 of the Universities Commission (1889). The Bursaries are open by competition to students who are presenting themselves for the final examination for the Degree of Master of Arts with Honours in the following rotation: (1) Classics, (2) Mental Philosophy, (3) Mathematics and Natural Philosophy. They are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation. One Bursary (value about £45) will be open to competition in October, the subject of examination being Mathematics and Natural Philosophy.

*Bursars*—William Fulton (Classics), 1899; Peter G. Smith (Mental Philosophy), 1900.

ARTHUR BURSARY OR SCHOLARSHIP (*Medicine*).—Founded in 1892 by Mrs. Arthur of Barshaw. The Bursary is at present of the annual value of £20. It is open to women students in the Medical School at Queen Margaret College. It is to be awarded by the Trustees to the student who shall take the highest place among the Queen Margaret College candidates at the First Professional Examination held in the University before the commencement of the winter session in which an appointment falls to be made, provided always that a candidate may take part of the examination in the March or April preceding. If two students are of equal merit, the Bursary will be divided between them, and if more than two are equal, a special examination may be held to determine who shall be the recipient. The Bursary is tenable for three years, subject to the condition that the Bursar prosecute her medical studies with the approval of the Trustees.

*Bursar or Scholar*—[1]Jane S. M'Laughlan, 1898.

GLASGOW AYRSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Four in number, founded in 1868 and 1870 by the Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £1,501 11s. subscribed by members of the Society, to be devoted to the establishment of bursaries in the University of Glasgow, and invested for that purpose. The bursaries, which are at present £15 per annum each, are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Society, or natives of Ayrshire, or sons of natives resident in Glasgow, who are in circumstances rendering the aid of a bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. Alexander M'Lennan, 92 St. Vincent Street, Glasgow. (One vacancy.)

*Bursars*—William R. Merry, 1900; Robert T. Leiper, 1900; George Young, 1900.

[1] Vacant through lapse of time.

Barbour Kilbarchan Bursary (*Arts*).—Founded in 1887 by the Executors of Miss Mary Barbour of Plymouth Grove, Manchester, who bequeathed £500 free of legacy duty for the purpose of endowing a scholarship for the Board School of Kilbarchan, Renfrewshire. The bursary is open to students of the first year, and is tenable for three years. Candidates must not exceed the age of eighteen years, must produce a certificate from the Kilbarchan School Board that they have attended three years at the Kilbarchan Village or Town Board School, are of irreproachable character, and have given satisfactory evidence of good natural ability, diligence and proficiency in their studies, and must be examined at the ordinary Bursary Examination. (Vacant.)

Bell Bursaries.—Mrs. Mary Allan Bell, of Nether Culzean, Maybole, who died on 7th February, 1899, at Glenae, Dumfries, in her Trust Disposition and Settlement of date 21st October, 1895, directed her Trustees, after the death of her husband, to apply the income of the residue of her estate in perpetuity in providing bursaries of £50 each for necessitous deserving students of Medicine, Law, or Theology in this University. Only those who have gone through the Arts curriculum are to be eligible, with a preference, *cæteris paribus*, first to the name Turnbull, and next to the name Macdowall. The Bursaries are to be awarded by competition, the examination being conducted both orally and in writing by two examiners appointed by the Trustees. Each Bursary is to be tenable for three or four years, as the Trustees may decide.

Biggart Memorial Bursaries (*Arts*).—Founded in 1876 by Mr. Thomas Biggart of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Free Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The bursaries are tenable for four years, and the yearly value of each is £25. The Bursary Fund consisted of the sum of £6,000, and the deed of foundation provided that the surplus revenue, if any, may be applied to prolong the tenure of any of the bursars for a fifth year, or to the granting of additional bursaries on the same conditions as are applicable to the others.

Each bursary is payable by equal moieties on the second day of February and at the close of the winter session ; and the bursar, on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the United Free Assembly, to the effect of his being recognised by that Church as an accepted student, pursuing his studies with a view to the ministry therein. (Two Vacancies.)

*Bursars*—[1] James H. Steel, 1897; Alexander Borland, 1898; John Whitelaw, 1899; John Baillie, 1900; George J. Jeffrey, 1900.

BLACK BURSARIES (*Arts*).—Founded by Mrs. Janet Black, widow of the Rev. William Black, D.D., Minister of the Barony Parish, Glasgow. Mrs. Black died in 1876, and by her Settlement, made provision, *inter alia*, for the institution of two bursaries in Arts, each of which is now of the annual value of £18. The bursaries are open to competition to students entering on their first session in the University; and the bursars are required to attend the qualifying courses for a degree in Arts.

*Bursars*—William H. Andrew, 1898; James E. Scott, 1900.

BLACK BURSARIES (*Theology*).—Founded by Mrs Janet Black—who died in 1876—in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The bursaries are entrance bursaries, two in number, each of the annual value of £30, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any four subjects taken from at least two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

*Bursars*—John Muir, M.A., 1899; Norman R. Mitchell, M.A., 1900.

BLACKQUARRY SCHOOL BURSARY (*Arts*).—Founded in 1876 by the Trustees of the Blackquarry School, Port-Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under "The Glasgow Police Acts," the Trustees resolved to apply the proceeds, after payment of all claims upon the institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to Students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £12).

*Bursar*—[1] William W. Clark, (1897) 1900.

BOYD AND SANDERS BURSARY (*Theology*).—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years, each of the value of £5 10s. per annum. The appointment to one of these was vested in the Merchants' House of Glasgow; and the patrons of the other two were the members of the City Council. Preference to burgesses' sons, particularly of the name of Boyd.

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[1] Vacant through lapse of time.

The Bursary, value £5 10s., in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value £8 6s. 8d., founded in 1728 by Mr. Robert Sanders of Auldhouse, also in the gift of the Merchants' House, were, by an order obtained under the authority of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. The preference, *cæteris paribus*, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop, was cancelled by Ordinance No. 57 of the Universities Commission (1889). When a vacancy occurs applications are to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September. (Vacant.)

Boyd and Wilson Bursary (*Theology*).—By ordinance of the Universities Commissioners of date 17th May, 1862, the two Boyd Bursaries in the gift of the Magistrates and Town Council of Glasgow (see above) were conjoined into one, tenable for three years, the Bursar to be M.A. By an ordinance of the same date the two Bursaries, value £6 13s. 4d. per annum each, which were founded by Mr. Michael Wilson in 1640, and placed under the same patronage, were also conjoined into one, tenable for three years, the holder to be M.A. in regular attendance at the University as a student of Theology. Restrictions as to kindred, etc., were in both cases abolished.

This Boyd Bursary and this Wilson Bursary were, by Ordinance No. 78 of the Universities Commission (1889), conjoined into one Bursary, called the Boyd and Wilson Bursary, value £24 6s. 8d. per annum. The holder must be a Master of Arts of a Scottish University. The Bursary is tenable for three years, provided that the Bursar shall, during that period, give regular attendance as a student of Theology in Glasgow University. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

*Bursar*—Kenneth O. Macleod, M.A., 1899.

Brand Bursaries (*Arts*).—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees to pay to the Senatus of the University of Glasgow the sum of £2,000, the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University who shall be studying with a view to the ministry of the United Free Church. Mr. Brand died on 3rd July, 1873, but, in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are of the annual value of about £24 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts; the Bursars to graduate as M.A. at the end of their course. (Two vacancies.)

*Bursars*—[1] William B. Smith, 1897; William Y. Turner, 1898.

BRISBANE BURSARY (*Medicine*).—Founded by Miss Christian Brisbane in 1777, in fulfilment of the intentions of her brother, Dr. John Brisbane of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £42 per annum. The family of Brisbane and the University present alternately. The applicant must be under twenty-two years of age, and must have the Degree of M.A.

The preference formerly given to the kin of the founder was cancelled by Ordinance No. 57 of the Universities Commission (1889).

*Bursar*—Robert B. Carslaw, M.A., 1900.

BROWN BURSARY.—See Crawfurd and Brown, p. 258.

BROWN OR ETTLES BURSARIES (*Theology*).—Two in number, founded in 1867 by Miss Ettles of Inverness, in memory of her brother-in-law, Dr. E. Brown, an alumnus of this University. The Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the examinations required for the ordinary Degree of M.A.; with a preference, *ceteris paribus*, to such as can speak Gaelic. The Bursaries are tenable for three years.

*Bursars*—George Condie, M.A., 1899; John Gillies, 1899.

EBENEZER BROWN BURSARY (*Arts*).—Founded in 1884 under the Trust Disposition and Settlement of Mr. Ebenezer Brown, export bottler, West Campbell Street, Glasgow. Mr. Brown, who died on 31st July, 1883, bequeathed to the Senate the sum of £1,000, free of legacy duty, for the purpose of founding and maintaining a bursary in the Faculty of Arts, to be granted to the student who shall stand highest in a competitive examination on such subject or subjects in Arts as the Senate may prescribe. The Senate have full power to vary such subject or subjects from year to year, and to lay down such regulations regarding the bursary as they may see fit. The bursary is open to competition to all students entering on their first or second year of attendance, provided that no student in his second year shall be eligible who on entering upon his first year of attendance passed the whole Preliminary Examination. It is tenable for three years. Present value, £40 per annum.

*Bursar*—[1] Arthur Shepherd, 1898.

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[1] Vacant through lapse of time.

BROWNE (AYRSHIRE) BURSARIES (*Arts*).—Two in number, tenable for four years, and each of the annual value of about £22, founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the county of Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne of Buenos Ayres, mortified to the University of Glasgow the sum of £1,000. The bursaries are awarded by competition. Candidates must be natives of the county of Ayr, or must have been educated for not less than four years in a school within the said county, and must be entering on their first session at the University.

*Bursars*—John MacInnes, 1899; Archibald H. Dunlop, 1900.

BROWN-PATON BURSARIES (*Arts*).—Founded in 1891 by Mr. Andrew Brown-Paton, Liverpool, in memory of his father, mother, and three sisters. The bursaries are two in number, and are tenable for three years. They are open for competition to students of the first year, with a preference to natives of the parishes of Loudon or Galston in Ayrshire. Should no candidate from either of these parishes come up to the standard of the Entrance Examination then held in Arts, the bursaries are open to candidates from any part of Ayrshire. Failing qualified candidates from Ayrshire, the bursaries are open to all students of the first year. In case of a vacancy, otherwise than by lapse of time, a student of the same standing is appointed by the Senate by examination or otherwise. Each bursar receives one half of the free proceeds of the capital sum, £1,000, paid over to the University Court by the founder.

*Bursars*—[1] John Frew, 1898; James M. Frew, 1900.

BUCHANAN BURSARIES (*Arts*).—Founded by the late Robert Buchanan, LL.D., Ardfillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by Codicils to his Will, dated 26th December, 1871, and 26th March, 1872, in which, as a "token or expression of his gratitude and respect to the University of Glasgow, with which, as a student, or Professor, or member of the University Court, he had been connected for the space of fifty years," he bequeathed the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the conditions that may appear to the Senatus best for the interests of the University. The Senate resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session; the Bursars to be appointed by competitive examination among students of the first year. Present value, £13 to each Bursar.

*Bursars*—[1] Archibald N. Main, 1898; George Wright, 1899.

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[1] Vacant through lapse of time.

Buchanan (Bellfield) Bursaries (*Arts and Theology*).—Founded in 1875, in accordance with the Trust Disposition and Deed of Settlement of the late Misses Margaret Jane and Elizabeth Buchanan of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in Reduced 3 per cent. Annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum "or such portion thereof as to the said Principal and Professors may seem proper." The Bursars are appointed by competitive examination among students of the first and second years in Arts. Present value, £47 per annum to each Bursar.

*Bursars*—Brodie S. Gilfillan, 1896; James G. MacDonald, 1897.

Buchanan Society Bursaries (*Arts or Science*).—These Bursaries, instituted by the Buchanan Society, are of two kinds, Classical and Technical. The former were established in 1877, the latter in 1893. They are open to students of the names of Buchanan, M'Millan, M'Auslan, M'Wattie, and Risk. The Classical Bursaries are each of the annual value of £30, and tenable for four years at any Scottish University. Candidates must be over sixteen and under twenty years of age. The Technical Bursaries are each of the annual value of £35, and tenable for three years at any Scottish University, or at any of the Technical Colleges of Glasgow, Edinburgh, Dundee, or Aberdeen, approved of by the Society. In the event of a Technical Bursar desiring to take the Degree of B.Sc., his tenure may be extended to a fourth year. Both the Classical and the Technical Bursaries are awarded by competition, the subjects of examination being English and any three selected by the candidate out of the following, viz., Latin, Greek, French, German, Mathematics, Science. Candidates for Technical Bursaries must also shew proficiency in Freehand Drawing. Four Bursaries will be given in September, 1901, provided a sufficiently high standard is reached by the candidates. Applications should be lodged not later than 15th September with the Secretary, Mr. P. G. Keyden, 186 West George Street, Glasgow, from whom further information may be obtained.

*Bursars*—John M'Millan (Classical), 1898; Andrew M'Millan (Classical), 1898; John M'Millan (Classical), 1898; Angus Buchanan (Classical), 1898; James Buchanan (Classical), 1899; Charles Buchanan (Classical), 1899; David M'Millan (Classical), 1899; Ebenezer M'Millan (Classical), 1899; John Macmillan (Medical, 5 years), 1900; Robert A. C. Macmillan (Arts, 3 years), 1900; James R. Buchanan (Arts, 3 years), 1900; Murdo Buchanan (Arts, 3 years,) 1900.

CELTIC SOCIETY'S CAMPBELL BURSARY (*Any Faculty.*)—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable for one or more years by a native, or a son of a native, of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, *cæteris paribus*, to Gaelic-speaking students. Additional Bursaries not exceeding £5 are also granted by the Society, when its funds permit, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. Charles M. Williamson, 194 West George Street, Glasgow, on or before 1st October in each year. Application forms may be obtained from Mr. Williamson.

*Bursars*—James Maclean (one year), 1899; John Macleod (one year), 1899; Neil M'Phail (one year), 1899.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS (*Arts, etc.*)—(See under "Scholarships.")

JOHN CLARK (MILE-END) BURSARIES (*Arts*).—Founded in 1868, in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, of the firm of John Clark, junior, & Co., thread manufacturers, Mile-End, Glasgow. By a Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons of Protestant parents, entering on their first session in the Faculty of Arts (a preference, *cæteris paribus*, given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow University. On 29th October, 1897, the Trustees resolved that it should not be competent for any one appointed after that date to a John Clark (Mile-End) Bursary to hold any other Bursary or Scholarship concurrently with it, except with the consent of the Trustees. The competition is to be in writing, and the trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate, said residue amounting to upwards of £35,000. Six Bursaries on this foundation will be competed for in October, 1901.

*Bursars*—[1] David M. Hutchison, 1897; [1] James F. Dyer, 1897; [1] George D. Reith, 1897; [1] Steuart N. Miller, 1897; [1] John J. Gemmell, 1897; [1] William E. MacDonald, 1897; John Bain, 1898; William H. Coats, 1898; Daniel Gillies, 1898; James Cosh, 1898; Robert W. Barr, 1898; James Hunter, 1898; Robert Burns, 1899; James M. Devine, 1899; John M'Phee, 1899; Kenneth Stewart, 1899; John S. Clark, 1899; John I. Greig, 1899; Robert N. Cross, 1900; William B. Donald, 1900; Thomas Duncan, 1900; Andrew Hutchison, 1900; Elias H. Jones, 1900; Thomas D. K. Murray, 1900.

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[1] Vacant through lapse of time.

Cowan Bursaries (Ayr Academy) (*Arts*). These Bursaries were founded by the late David Cowan, Esq., of Auchendrane, who bequeathed to the Directors of the Ayr Academy the sum of £2,000, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who should have received their previous education, or part of it, at Ayr Academy. These Bursaries are now administered by the "Ayr Educational Trust." Under Scheme 328, Section 26, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 8th February, 1890, the Governors are instructed to apply an annual sum of not less than £80 in establishing Bursaries for University education, to be called the Cowan Bursaries, each of the yearly value of not less than £20 nor more than £30. These Bursaries are awarded by competitive examination among those who have been pupils in the Ayr Academy for at least two years before the date of examination. The Governors have resolved to award them alternately to students of Glasgow and Edinburgh Universities. The Bursaries are tenable for three years, the total value of each being £80, payable by instalments of £30 per annum for the first two years, and £20 for the third year. No student who has gained a Cowan Bursary shall hold along with it any other Bursary or Scholarship which either singly or in combination exceeds the amount of £10 per annum, without the consent of the Governors. On a vacancy, intending candidates must send in their names and addresses to the secretary, Mr. J. G. M'Skimming, 7 Wellington Square, Ayr, before the first day of September; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University. (One vacancy.)

*Bursar*—John R. Cameron, 1899.

Craig Bursary (*Arts*).—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four years. The preference to kindred of Founder, and students of the name of Craig, was cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants' House. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st September of the year in which a vacancy occurs.

*Bursar*—Oliver Dryer, 1898.

Archibald Craig Bursary (*Arts*).—The Rev. Archibald Craig, some time minister of the Free Church at Dalton, thereafter residing at Eaglesham, who died on 10th March, 1873, by his Will, dated 4th March, 1873, bequeathed a sum which, with accretions, amounted in 1884 to £250, to be devoted to the foundation of a Bursary in the University of Glasgow. The Trustees of the Bursary Fund are —the Minister for the time being of the Parish of Eaglesham, the Minister for the time being of the United Presbyterian Church, Newton-Mearns, and certain other gentlemen. The Bursary was founded in 1884. It is open to competition, at the annual Bursary Examination, to all students entering on the first session of attendance at the University, who are natives of the parishes of Eaglesham or Mearns, or who for two consecutive years have attended school in either of said parishes ; is awarded by the Senate in accordance with the result of that examination ; and is tenable for the first two years of such student's attendance at the University. The Bursary is payable at the close of the winter session. Should the Bursary be in abeyance during any session or sessions, from failure of students falling under the above description, the accumulation may, in the discretion of the trustees, be applied to the increase of the Bursary in any subsequent session or sessions, or may be added to the capital fund. (Vacant.)

CRAWFURD AND BROWN BURSARY (*Arts*).—The Crawfurd or Bishop's Bursary was founded by Captain Thomas Crawfurd of Jordanhill in 1576, and was appropriated to a student in Languages. It was tenable for four years, the value being a chalder of meal. The Patrons were the Principal and the Professors of the University. The foundation was remodelled by ordinance of the Universities Commission, dated 7th June, 1862. The Brown Bursary was founded in 1697 by Colonel Brown of Maryland. It was tenable for four years. The annual value was £5, increased in 1880 to £6 13s. 4d. by an addition from the Students' Bursary Fund. This Bursary, being also in the patronage of the Principal and Professors, was combined with the Crawfurd Bursary by Ordinance No. 81 of the Universities Commission (1889), the joint-bursary to be called the Crawfurd and Brown Bursary. The preference as to kindred attaching to the Brown Bursary was abolished. The Crawfurd and Brown Bursary is tenable for four years, the annual value being £19 13s. 4d. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure, if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary.

*Bursar*—Theodore D. Dunn, 1900.

DONALD CUTHBERTSON BURSARY (*Science*).—Founded in 1900 by Sir John Neilson Cuthbertson, LL.D., and Thomas William Cuthbertson, M.A., Trustees of Donald Cuthbertson, LL.B., Accountant in Glasgow, who died on 8th December, 1864. The Bursary Fund amounts to £1,000, being the accumulated revenue and principal of

£500 out of the residue of the Testator's estate. The Deed of Foundation provides that the right of nominating the bursar, of determining what classes in the University he shall attend, and of fixing the period of tenure, shall belong to the Trustees. Their subsisting resolution is that the Bursary shall be given to a Science student, that it shall be tenable for three years, and that the Bursar shall during that period attend classes with a view to his graduating as B.Sc. in Pure Science. The Trustees reserve to themselves power to alter this resolution at any future time, and should they ultimately resign the management of the Trust into the hands of the University Court, then the Bursary shall be administered under the regulations fixed and adopted at the time by the Trustees.

*Bursar*—Alfred Walter Stewart, 1900

DAVIDSON BURSARIES (*One in Arts and one in Medicine*).—Two in number, founded in 1881, in terms of the Trust Disposition and Settlement of Mrs. Eliza Davidson, who bequeathed £2,000 for that purpose, the one bursary being in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson. A preference is given, *ceteris paribus*, to the Founder's relatives, and to young men natives of the parishes of Muirkirk, Dalserf, Lesmahagow, and Loudoun. One of the Bursaries is open to competition to students of the first or second year in the Faculty of Arts, and is tenable for three years, but the second moiety of the third year's Burse is not payable until the bursar shall have passed the examinations in four subjects taken out of at least two Departments for the Degree in Arts. The other Bursary, also tenable for three years, is awarded to the medical student who stands first in the First Professional Examination, provided that his attendance at the classes has not exceeded the requirements of the Ordinance. The present annual value of each is £26.

*Bursar in Arts*—Norman R. Logan, 1900.
*Bursar in Medicine*—[1] Andrew M. Kerr, 1898.

DENNY BURSARIES (*Any Faculty*).—Four in number, founded in 1875, by the late Peter Denny, LL.D., engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who are not under fourteen years of age, and who have been pupils in regular attendance at the Dumbarton Burgh Academy for at least two years, one of which must be immediately preceding the date of such entry. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition Bursaries. The Trustees are Mr. Peter Denny and

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[1] Vacant through lapse of time.

Mr. Leslie Denny, nominated in 1896 by the Sheriff of Dumbartonshire, the Principal and Professors, and one of the four Assessors of the General Council in the University Court appointed by the four Assessors, or a majority of them, in accordance with the provisions of Ordinance No. 91 of the Universities Commission (1889).

*Bursars*—[1] Hugh de P. Birkett, 1897; James M'Nabb, 1898; James C. Moir, 1899; Henry J. Milligan, 1900.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Two in number, the one founded in 1874 and the other in 1876. They are in value £15 per annum each, are tenable for four years, and consist of the annual proceeds of a sum subscribed by members of the Glasgow Dumfriesshire Society and invested for the establishment of Bursaries in Glasgow University. The Bursaries are open to first and second year's students, between the ages of 14 and 27, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Application to be made to the Secretary, Mr. Francis Stoddart, 58 West Regent Street, Glasgow, not later than 1st September of the year in which a vacancy occurs.

*Bursars*—Margaret L. Duncan, 1898; Wilfred G. M'Lean (£10), 1900; George W. M'Allister, (£10), 1900.

DUNCAN'S BUTE BURSARIES (*Arts*).—Founded in 1875 for the benefit of natives of the island of Bute, by Mr. James Duncan of Valparaiso, and afterwards of Rothesay, who by his Will of date 19th October, 1874, bequeathed £2,000 for this purpose. The Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. The examination is in the same subjects and at the same time as the examination for the other competition Bursaries. There is a preference, *cæteris paribus*, to the name of Duncan, in such degree as the Patrons shall determine; in other cases of equality the Bursary may be divided. Present annual value, £32 to each Bursar. On 28th October, 1897, the Patrons made a by-law declaring that it should not be competent for any one appointed after that date to a Duncan's

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[1] Vacant through lapse of time.

Bute Bursary to hold any other Bursary or Scholarship concurrently with it.

*Bursars.*—[1] Archie D. Thomson, 1897; [2] Angus P. Fletcher, 1899.

DUNDONALD BURSARIES (*Eight in Arts and Six in Theology*).—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity.

In 1858 the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained, authorising an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

The Bursaries were further regulated by Ordinance No. 94 of the Universities Commission (1889). The Bursaries in Arts are tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure, if he engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are tenable for three years, and no longer. A student cannot be appointed to a Dundonald Bursary in Divinity unless he has passed all the examinations required for graduation in Arts. In other respects the provisions of Ordinance No. 57 apply to all the Bursaries on this Foundation. The Bursars in Arts receive £40 each per annum, and those in Divinity £41 2s. 6d. The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, J. Auldjo Jamieson, Esq., 66 Queen Street, Edinburgh, to whom applications should be sent on or before the first of September. Two appointments in Arts and two in Divinity will be made for next session.

*Bursars in Philosophy.*—[1] Robert J. Hamilton, 1897; Frank W. Saunders, 1898; Alexander C. Wilson, 1898; Charles G. Sim, 1899; William R. Merry, 1899; Donald Macphail, 1900; John W. Scott, 1900.

*Bursars in Divinity.*—David L. Blair, M.A., 1899; Robert S. Masterton, M.A., 1899; William M. Tait, M.A., 1900; John M. Pryde, M.A., 1900.

ELDER BURSARIES.—With a view to the encouragement of merit shown by the sons of working men, Mrs. Elder has intimated her intention of giving annually to the most deserving student of the Science and Art Classes in connection with the Young Men's Christian Association, Govan Section, a Bursary of £25 per annum, to which will be added by the Department of Science and Art an equal sum, making £50 in all. The Bursaries will be tenable for two years.

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[1] Vacant through lapse of time. [2] Vacant through resignation of Bursar.

Candidates must have taken the undermentioned classes in the Govan Science and Art Section :—Mathematics (2nd stage); Theoretical Mechanics (Elementary); Steam and the Steam Engine, or Naval Architecture (advanced stage).

The competition by which the Bursar is to be selected will be in the above subjects, and will be conducted by the Department of Science and Art at the examination in May.

Candidates must be employed in workshops on the Govan side of the Clyde from Glasgow to and including Renfrew, or must reside in the district. A Bursar will be required to enrol in and attend the following classes at the University during the first year of his attendance :—(1) Natural Philosophy ; (2) Chemistry (lectures); (3) Mathematics; (4) Naval Architecture and Marine Engineering. During the second year of attendance : (1) Mathematics ; (2) Civil Engineering and Mechanics (lectures); (3) Naval Architecture and Marine Engineering. These Bursaries are to be continued during Mrs. Elder's pleasure.

JAMES EWING ENTRANCE BURSARIES (*Arts*).—Four in number, founded in 1879 by the Merchants' House of Glasgow in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 for educating, training, and settling in business the sons of Glasgow merchants in entrance Bursaries of £20 each. The Bursaries are tenable for four years by students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to the Bursaries will be made in accordance with the annual Bursary competition at the commencement of the session ; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st September, in each year.

*Bursars*—[1] Archibald G. Bisset, 1897; John Martin, 1898 ; Norman A. Black, 1899 ; John C. Middleton, 1900.

JAMES FERGUSON BURSARIES (*Theology, Law, Medicine, or Department of Engineering Science*).—Two in number, founded in 1877, under provision of the Trust Disposition and Settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are tenable for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following rotation, viz. :—In November, 1878, and thereafter triennially, in Mental Philosophy, together with English Literature ; in November, 1879, and thereafter triennially, in Mathematics and Natural Philosophy ; in November, 1880, and thereafter triennially, in Classical Literature.

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[1] Vacant through lapse of time.

The Examination is the same as that for honours in the Groups of Classics, Mental Philosophy, and Mathematics and Natural Philosophy respectively (with the addition in the case of the Group of Mental Philosophy of a paper on English Literature), at the annual Examination for Degrees in October. Candidates must have completed the course of attendance required for admission to examination in the corresponding Group for the Degree of M.A. with Honours. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz.:—Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly Burse without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly Burse until he has graduated or received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, *cæteris paribus*, to young men natives of the parishes of Lesmahagow or Muirkirk, or the province of Pictou, Nova Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

Candidates for the Bursary to be competed for in 1901 will be examined in Classics along with the examinations on these subjects for the Degree of M.A. with Honours. Names to be given in to the Assistant Clerk (Matriculation Office) not later than 18th September.

*Bursar*—Archibald M. Macmillan (Mathematics and Natural Philosophy), 1900.

FORFAR BURSARIES (*Arts*).—Founded by the Countess of Forfar in 1737. The foundation was remodelled by the Universities Commission (1858), by Ordinance of 31st May, 1862, and further regulated by Ordinance No. 79 of the Universities Commission (1889) of date 15th February, 1895. There are now five Forfar Bursaries in the gift of the Senate; the holder of each to receive

£36, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance at the University. They are tenable for four years, subject to the condition that the bursar shall proceed through the curriculum in Arts, and shall pass the examinations for the Degree of M.A. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to the Forfar Bursaries.

*Bursars*—[1] George H. Stevenson, 1897; Thomas Barbour, 1898; William S. B. Wilson, 1899; Robert Harvie, 1900; Dugald F. Percy, 1900.

Forrest Bursaries (*Any Faculty*).—Founded by Mr. William Forrest of Easter Meadowhead, Drumgelloch, and Meadowside, by Deed of Mortification of date 6th March, 1858. The Trust was reconstituted in 1886, under a Scheme of the Educational Endowments Commission. The Bursaries are five in number, each of the annual value of £22, and tenable at the University of Glasgow for such number of years, not exceeding five, as the Governors may determine. The Bursaries are awarded by competitive examination among young men who require aid in obtaining a University education, and who have been pupils in public or State-aided schools within the parishes of New Monkland, Slamannan, and Shotts, or who are natives of said parishes. Probably one new appointment will be made at the beginning of session 1901-2. Bursars cannot hold another Bursary, must prosecute a course for some degree, and attend at least two classes each session.

Governors—The Provost of Airdrie, the ministers of the parishes of New Monkland, Airdrie, and Clarkston, one representative from each of the School Boards of Airdrie and Clarkston, and one from the School Boards of Slamannan and Shotts alternately, and one appointed by the Sheriff of Lanarkshire. Secretary, Mr. G. B. Motherwell, Town Clerk, Airdrie.

*Bursars*—Archibald Fleming, 1898; William Allan, 1899; David G. Masterton, 1899; Joseph Cupples, 1900; Harry A. Kellow, 1900.

Foundation Bursaries (*Arts*).—These Bursaries were founded by James VI., in 1577, for students in Languages and Philosophy, and were originally four in number. By ordinance of the Universities Commission (1858) of date 7th June, 1862, these Bursaries were remodelled, and were further regulated by Ordinance No. 84 of the Universities Commission (1889) of date 15th February, 1895.

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[1] Vacant through lapse of time.

Under the new scheme there are two Foundation Bursaries, the holder of each to receive £20 per annum. They are open for competition to all students entering the first or second session of attendance at the University, and are tenable for four years. The class attendance of the Foundation bursars is regulated by Ordinance No. 57, Sec. III. If a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science.

*Bursars.*—[1]John D. M'Callum, 1897; Annie M. MacGregor, 1900.

FULLARTON OF OVERTON BURSARIES (ARTS).—By Deed of Mortification and Constitution dated 22nd December, 1877, the Executors of the late John Fullarton, Esq., of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and Codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2,904 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10, but not exceeding £30. The present annual value to each bursar is £22. The Bursaries are tenable for two years by students in Arts under 25 years of age, belonging to or resident in the district of Cunninghame, in Ayrshire, children of parents whose means and social position are not above those of tradesmen, small farmers, or shopkeepers, or others who may be struggling to secure their better education, and are by themselves, or with such assistance as they may be able to get from their parents or relations, unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English; but no candidate is eligible who has attended any University for more than one session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. Any accumulations through vacancies are added to the capital sum. Candidates are required to produce evidence of age.

*Bursars.*—[1]Robert K. Goodfellow, 1899; [1]William T. Ritchie, 1899; [1]William Kerr, 1899; Robert Dewar, 1900; Robert D. Watt, 1900.

WILLIAM GARDINER BURSARIES (ARTS, *Medicine*).—William Gardiner, M.D., of Ashton-under-Lyne, by his Settlement, dated 27th September, 1897, directed his Trustees to pay over to the

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[1] Vacant through lapse of time.

University Court the sum of £1000, free of legacy duty, for the purpose of founding one or more Scholarships, Bursarships, or Exhibitions, to be devoted to such objects and in such manner as the Court should think fit, preference being given to students of Chemistry, Physiology, and Physics, French and German, and, so far as practicable, to sons of medical men, lawyers, and teachers.

The following regulations were approved by the University Court on 4th October, 1900:—

1. The Bursaries shall be two in number, equal in value, and each tenable for two years.

2. One Bursary shall belong to the Faculty of Medicine, and shall be awarded after the Autumn Professional Examinations in Medicine to the candidate who in the year in which the bursary is open has passed in Physiology of the second professional examination, and whose aggregate of marks in that subject and in chemistry and Physics of the first professional examination, is the highest.

3. The other Bursary shall belong to the Faculty of Arts, and shall be awarded to the student who obtains the highest marks in French and German as subjects of the General Bursary examination in the year in which the Bursary is open, provided that it shall be in the power of the Senate to award the bursary for decided proficiency shown by a candidate in one of the said languages. The holder of this bursary must attend the French class or the German class in the University, and pass the examination in one or other of these subjects required for graduation in Arts. The second moiety of the second year's Burse shall not be paid until the Bursar shall have passed this examination.

4. Either of the William Gardiner Bursaries may be held along with any other Bursary in the University, if the regulations of that other Bursary permit.

5. The Bursaries shall be open to both men and women, effect being given, *cæteris paribus*, to the preference expressed in the Will of Dr. Gardiner for sons of medical men, lawyers, and teachers.

The present annual value of each is £13 10s. (Both vacant.)

GARTMORE BURSARY (*Arts*).—In accordance with the directions of the Founder of the Gartmore Medal (see p. 339), the Universities Commission (1889), by Ordinance No. 98, founded this Bursary, a sufficient capital having accumulated from the surpluses of the Foundation. It is open by competition to all students entering on their first year of attendance on a course for graduation in Arts, and is tenable for three years. Value, £21 per annum. In other respects the provisions of Ordinance No. 57 apply to the Gartmore Bursary.

*Bursar*—Andrew C. Baird, 1900.

GENERAL COUNCIL BURSARIES (*Arts*).—Under a scheme originated by the late Mr. David Hannay, Clerk to the General Council, a sum of about £500 (Fund No. I.) was raised by subscription among the members of Council for the foundation of Bursaries to be held for three years, and open to competition to first and second year's students in Arts. This fund has now been exhausted. In addition, a sum of £2,382 2s. (Fund No. II.) was raised to form the nucleus of a permanent General Council Bursaries Fund, and invested in the names of Trustees. Of this sum £1,000 is due to the liberality of the late Rev. Wm. Park, D.D., minister of Airth, to be applied in memory of his brother, the Rev. John Park, D.D., minister of Calder. With Dr. Park's consent, the income of this sum was appropriated to two General Council Park Bursaries of £20 a year, open to students of either sex who, having passed the Preliminary Examination in Arts, are about to commence their second year of actual attendance at the University. The General Council Park Bursaries are tenable for two years. The remainder of the free income of the fund is devoted to providing bursaries, called the General Council Bursaries, of such number and of such amount as may from time to time be determined by the Trustees. The General Council Bursaries are open to students of either sex on their first entering the University, and are tenable for three years. No candidate shall obtain a General Council Bursary who shall not have passed the Preliminary Examination in Arts, but it is in the power of the Trustees to admit to a General Council Bursary, a candidate who has passed in at least three subjects of the Preliminary Examination on condition that the bursary shall not be retained unless the bursar passes in all the subjects not later than the second Preliminary Examination held after the time of admission.

*Bursars*.—¹ John H. Stewart, 1898; John Kaye, 1899; ¹ Clarence J. Vincent, 1899 (Park); David M'Millan, 1900; Marion Y. Reid, 1900 (Park).

John Gibson Bursaries (*Any Faculty*).—Founded in 1877 by Miss Jane Gibson, in memory of her father, John Gibson of Oakbank and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student, or at most two, consist of the annual proceeds of £1,000. The administration is vested in trustees, who have great discretionary powers as to the conditions on which the Bursaries may be held. Their subsisting resolution is to award the Bursary to a Medical student entering on the third year of his course, and that it be retainable for three years. When a vacancy occurs applications are to be made in September to Messrs. A. J. & A. Graham, 198 West George Street, Glasgow, who will furnish forms of application.

*Bursars*.—Donald Douglas, M.A., 1898; Robert T. Leiper, 1900.

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[1] Vacant through lapse of time.

DR. THOMAS GIBSON (ROTHESAY) BURSARY (*Medicine*).—Founded in 1893 in terms of the Trust Disposition and Settlement of Misses Christian and Janet Gibson, who bequeathed £1,000, free of legacy duty for that purpose, in memory of their brother. Present annual value, £32. The Bursary is tenable for four years, and is open to any matriculated student of Medicine (male or female) in the University preparing for service as a Medical missionary in connection with the Church of Scotland, who has completed the first professional examination in the year in which the Bursary is open. The Bursary is awarded to the qualified applicant who has obtained the best marks in the said examination; but in the case of an equality of marks between two or more candidates, the Senate may hold a further examination to determine to which of such candidates the Bursary shall be awarded. In the case of a casual vacancy, the Senate may appoint for the remainder of the period of tenure any qualified applicant who has shown diligence and proficiency in the earlier part of the curriculum in Medicine. In the event of the Bursary not being awarded in any year or years from lack of qualified candidates, the Senate may, in any subsequent year, if the funds of the Foundation admit, award an additional Bursary for one or more years, not exceeding four. There is a preference, *cæteris paribus*, to students of the name of Gibson.

*Bursar*—Robert Macfarlane, 1900.

GILCHRIST BURSARY.—See Howison and Gilchrist, p. 273.

GILHAGIE AND STRUTHERS BURSARY (*Theology*).—The Gilhagie Bursary was founded in 1753 by Agnes Gilhagie, widow of William Somerville, merchant in Glasgow, for a student in Divinity. It was tenable for four years, the annual value being £6 6s. In 1624 the Rev. William Struthers founded two Bursaries, each of the annual value of £6 13s. 4d., for students of Divinity. By Ordinance of the Universities Commission (1858) the two Struthers Bursaries were conjoined into one, tenable for three years, the holder to be M.A., and a student of Divinity. All other restrictions were abolished. By Ordinance No. 82 the Universities Commission (1889) combined the Gilhagie Bursary and the Struthers Bursary into one, called the Gilhagie and Struthers Bursary. The patrons of the joint-bursary are the Magistrates, Town Council, and Ministers of Glasgow, who may present any person without preference as to name, provided that he be a Master of Arts of a Scottish University. The Bursary is tenable for three years, and no longer, subject to the condition that the bursar shall during that period give regular attendance as a student of Theology in the University of Glasgow. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September. (Vacant.)

GLASGOW CITY EDUCATIONAL ENDOWMENTS BURSARIES (*Arts*, &c.).—Under scheme 10, section 31, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 10th May, 1885, the Governors of the Glasgow City Endowments Board are instructed to apply the annual sum of £500 in establishing Bursaries at the University of Glasgow. Each Bursary is of the yearly value of £25. One half of these Bursaries are to be awarded among the King's Scholars at Training Colleges who have attended two years at the University of Glasgow, on the report of the Board of Examiners appointed by the Scotch Education Department. Every King's Scholar obtaining such Bursary shall be taken bound to complete his curriculum for a degree in Arts or Science during the time he holds the Bursary, and thereafter to submit himself for examination for such degree. The other half of the Bursaries are to be awarded by competitive examination among those who have attended public or State aided schools in Glasgow, and who require aid in obtaining a University education. They are tenable for four years. Forms of application may be had from the Secretary of the Board—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary at the general competition. In 1901 five King's Scholars and three other Bursars will be appointed.

*Bursars*—[1] May S. M'Clure, 1897; [1] Andrew M. Kerr, 1897; [1] William Runciman, 1897; Neil MacInnes, 1898; Alexander Moffatt, 1898; William Ferguson, 1899; George P. Granger, 1899; Jacob Levine, 1899; William Miller, 1900; Andrew W. Rogerson, 1900.

*King's Scholars*—[1] Louis N. Gow, 1899; [1] Alexander B. Lamont, 1899; [1] James Sinclair, 1899; [1] James H. Steel, 1899; [1] John H. Stewart, 1899; John Anderson, 1900; John Docherty, 1900; Annie I. Galbraith, 1900; James Hunter, 1900; Archibald Lang, 1900.

GEORGE GRANT BURSARY (*Arts*).—Founded in 1885 by Miss Susan Smith Grant of West Thorn, Lauder Road, Edinburgh, in memory of her father, George Grant, Esq., cotton spinner, Mile-End, Glasgow. Miss Grant assigned and conveyed to the Senate the sum of £1,200 in trust, to be applied in all time coming for providing one Bursary in connection with the Faculty of Arts. Miss Grant retains the right of nomination to the Bursary during her lifetime, but has provided that in the event of her failing or declining to nominate, and in all cases after her death, the Bursar shall be determined by competitive examination of first year students who are entering on a three or four years' course of study, and the Bursary shall be tenable for three or four years accordingly. On the Bursary falling vacant otherwise than by lapse of time, an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary he must produce evidence that he has taken his degree, or that he has passed all the examinations necessary for graduation. Any accumulations from vacancies or otherwise are to be added to the capital sum.

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[1] Vacant through lapse of time.

*Bursar*—Angus Grant, 1901.

George Grant, Junior, Bursary (*Arts*).—Founded in 1885 by Mrs. Agnes Grant or Mair, wife of the Rev. John Mair, D.D., minister of the parish of South Dean, Roxburghshire, in memory of her brother, the late George Grant, junior, cotton manufacturer, Mile-End, Glasgow. Mrs. Mair, with the advice and consent of her husband as her curator and administrator-in-law, and for his interest in the premises, assigned and disponed to the Senate the sum of £1,200 in trust, to be applied by them in all time coming for providing one Bursary in connection with the Faculty of Arts. Mrs. Mair reserved to herself during her lifetime, and thereafter to her husband, should he survive her, the right to nominate to the Bursary, and to fix the classes to be attended by the Bursar and the period of his tenure. After the death of the survivor the period of tenure of the Bursary is to be four years, and the Bursar is to be selected by competitive examination of first year's students. In the event of a vacancy occurring otherwise than by lapse of time an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar shall require to graduate in Arts, and before payment of the second moiety of the last year's Bursary shall produce evidence that he has taken the degree, or that he has passed all the examinations necessary for graduation. Any accumulations through vacancies or otherwise are to be added to the capital sum.

*Bursar*—George R. Jeffrey, 1898.

Hamilton Bursaries (*Three in Arts, and Three in Theology*).—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694. They were regulated by Act of Parliament, 1758, and further regulated by Ordinance No. 96 of the Universities Commission (1889). There are three Hamilton Bursaries in the Faculty of Arts, and three in the Faculty of Divinity, and each of them is tenable for three years, and no longer. The bursars in the Faculty of Arts shall attend such classes qualifying for graduation in Arts, and in such order as may be approved by the Senate. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this Foundation. The bursars in Arts receive £20, those in Divinity £25 per annum each, should the state of the funds permit. The patronage lies with the Trustees of the late Duke of Hamilton, and is exercised by their Commissioner, J. Auldjo Jamieson, Esq., 66 Queen Street, Edinburgh, to whom applications should be sent on or before the first of September. (One vacancy in Arts and one in Theology.)

*Bursars in Arts*—Alexander Chisholm, 1899; Neil Leitch, 1900.

*Bursars in Theology*—William Macphail, 1899; Alexander Williamson, 1901.

Hamilton Educational Trust Bursaries (*Arts*).—Under scheme 39, section 28, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 13th May, 1887, the Governors of Hamilton Educational Trust are instructed to apply a sum, not less than £50 yearly, in providing University or Technical College Bursaries. These Bursaries, each of the yearly value of £15, and tenable for three years, are open to be competed for by pupils attending public or State aided schools in the burgh and parish of Hamilton, who require aid in obtaining a University or higher education. Applications to be lodged with Patrick Keith, Esq., Hamilton, Clerk of the Trust, on or before the first day of September. There will probably be a vacancy to which an appointment may be made in November, 1901.

*Bursars*—Alexander Hatley, 1899; Robert N. Cross, 1901.

Hannay Bursaries (*Arts*).—Three in number, founded in 1865 by the late Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men, not under fourteen and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other examination as the trustees may appoint; but the result of said examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three years—one to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow, and the President of the Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 77 St. Vincent Street, and also to the Assistant Clerk (Matriculation Office) not later than 1st September.

*Bursars*—[1] Alexander M. M'Iver, 1898; John A. Fleming, 1899; Robert A. C. Macmillan, 1900.

HASTIE BURSARIES (*One in Arts and Two in Theology*).—The Rev. Mr. Hastie, by Deed of Mortification dated 5th September, 1707, founded a Bursary for a student in this University, which was first awarded in 1718. By an addition afterwards made to the foundation, the number of Bursaries was increased to three, two in Divinity and one in Philosophy.

The Universities Commission (1858), in an Ordinance of date 31st May, 1862, made regulations for these Bursaries, and further regulations have been made by the Commissioners (1889) in Ordinance No. 90. There are now three Bursaries on this Foundation, each £25 in value—one in Arts and two in Theology. The Bursary in Arts is open by competition to all students entering on their first session of attendance in the Faculty of Arts, and is tenable for four years, but if a student graduate at the end of three years, he shall only retain his Bursary for the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first session of attendance in the Faculty of Divinity. They are tenable for three years, and no longer. In other respects the provisions of Ordinance No. 57 of the Universities Commission (1889) apply to all the Hastie Bursaries.

*Bursar in Arts*—Peter H. Waddell, 1898.

*Bursars in Theology*—[1] James Francis, 1898; William A. Gillies, 1900.

GLASGOW HIGHLAND SOCIETY'S BURSARIES (*Twelve in Arts and Seven in Medicine*).—In 1892 the Managers of the Glasgow Highland Society framed a scheme of Scholarships and Bursaries for students of Highland descent. The scheme includes Scholarships tenable at Secondary or Technical Schools, and Bursaries tenable at the Glasgow and West of Scotland Technical College and at the University. The University Bursaries in Arts are twelve in number, each of the annual value of £20, and tenable for four years in the Faculty of Arts, but the continuance of a Bursary in the second and subsequent years is dependent on the character of the certificates obtained by a Bursar in his classes in the previous year. They are awarded by competition among students of the first year. The Bursaries in Medicine, each of the annual value of £25, are tenable for five years in the University, or any other College approved by the managers. Candidates must pass the preliminary examination of the College at which they desire to attend, and the managers reserve to themselves the right to appoint the most suitable. In 1901 there will probably be three Bursaries in Arts and two in Medicine open to competition. Secretary, R. Hope Robertson, Esq., 58 St. Vincent Street.

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[1] Vacant through lapse of time.

*Bursars in Arts*—[1] David James M'Leish, 1897; [1] Hector M'Lean, 1897; [1] George A. M'Gregor, 1897; [1] Malcolm MacAlister, 1897; Archibald Young, 1898; Peter Mitchell, 1898; George Campbell, 1899; Hugh C. M'Coll, 1899; Peter C. M'Arthur, 1900; Alexander Murray, 1900; George W. Walker, 1900; Alexander Beaton (extra), 1900.

*Bursars in Medicine*—Ivy M'Kenzie, M.A., 1897; William F. Kay, 1897; Malcolm Hutton, 1898; William Stewart, 1898; Andrew M. Pollock, 1899; George D. M. Beaton, 1900; Murdo D. M'Kenzie, 1900.

HILL BURSARIES (*Arts*).—Two Bursaries of the annual value of not less than £10, nor more than £25 (present value £15). These Bursaries tenable for three years shall be awarded on the results of the Bursary Competition of the University of Glasgow, and shall be open to pupils attending the secondary departments of public or State-aided schools in the district of the School Board of the Parish of Govan, who shall be approved by the Governors of Hill's Trust, and whose parents are in such circumstances as to require aid in giving their children higher education. Secretary, John A. Craigie, Esq., 151 Bath Street, to whom application should be made before 1st September.

HOWISON AND GILCHRIST BURSARY (*Arts*).—In 1613 the Rev. John Howison, Minister of Cambuslang, founded a Bursary for a qualified scholar of honest name and good report, son of a craftsman of Glasgow. Failing the son of a craftsman of Glasgow, any other qualified scholar might be selected by the Patrons. Mr. John Gilchrist, tailor in Glasgow, founded in 1700 a Bursary in Philosophy for a student, being the son of a tradesman freeman in the burgh of Glasgow, with a preference to the names Gilchrist, Bryce, and Boyd.

By Ordinance No. 89 the Universities Commission (1889) combined these two Bursaries into one, called the Howison and Gilchrist Bursary. The Patrons are the Trades' House of Glasgow, and any person may be presented without restriction as to birth or preference as to name. The Bursary is tenable for four years, but if a bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. Value £17 per annum.

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[1] Vacant through lapse of time.

*Bursar*—John F. Steven, 1900.

HUTCHESONS' EDUCATIONAL TRUST BURSARIES.—Under Scheme 9, Section 40, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 5th March, 1885, the Governors of Hutchesons' Educational Trust are instructed to apply an annual sum of not less than £400 in establishing University or Technical College Bursaries. These Bursaries, each of the yearly value of £20, and tenable for four years, are open to be competed for by boys who have attended Hutchesons' Grammar School for at least two years immediately preceding the competition, and completed the curriculum in the Secondary Department. Forms of application may be had from the Secretary of the Trust—Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the first day of September in each year. The names of candidates who are found to possess the prescribed qualification will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in the order of merit who fail to win a Bursary at the general competition. In 1901 five Bursars will be appointed.

*Bursars*—[1]Robert S. Dewar, 1897; [1]James B. Galbraith, 1897; [1]Robert W. Barr, 1897; [1]John Nicolson, 1897; Gavin Muir, 1898; Ebenezer Macmillan, 1899; Macdonald Munro, 1899; Alexander S. M. Macgregor, 1899; Tom D. M'Ewan, 1899; Alexander Ballantyne, 1899; Archd. Y. Hutchison, 1899; James Fairley, 1900; Dugald M'Callum, 1900; John N. M. Paterson, 1900; Thomas T. Rankin, 1900.

THOMAS HUTCHESON BURSARY (*Theology, Law, or Medicine*).—This Bursary, formerly known as the Old Library Bursary, was founded by Mr. Thomas Hutcheson of Lambhill in 1641. Preference was given to a son of a burgess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow. Ordinance No. 83 of the Universities Commission (1889) prescribes that the Bursary shall be called the Thomas Hutcheson Bursary, and that it shall be lawful for the Patrons to appoint to it, without preference as to name or birth, any Master of Arts who is entering on his course of study in any one of the Faculties of Divinity, Law, or Medicine. The Bursary is tenable for four years, but if a bursar in Divinity graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Value £11 2s. 2¼d. per annum. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

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[1] Vacant through lapse of time.

*Bursar*—Theodore D. Lowe, 1900.

HYNDFORD AND ROSS BURSARY (*Arts*).—In 1617 Mr. Michael Wilson founded a Bursary, called the Hyndford Bursary, for a student in Philosophy. The right of presentation belonged to the representative of Sir James Carmichael, viz., Sir W. C. Anstruther, Bart. In 1659 Captain William Ross of Rosseyle founded the Ross Bursary for a student in Languages and Philosophy. The appointment was vested in the Earl of Glasgow. By Ordinance No. 95 of the Universities Commission (1889), these two Bursaries were combined into one, to be called the Hyndford and Ross Bursary. It is tenable for four years, but if the bursar graduate at the end of three years, he shall only retain his Bursary during the fourth year of tenure if he engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. The patronage of the Bursary is vested in Sir W. C. Anstruther, Bart., and his heirs, and the Earl of Glasgow and his heirs, who exercise their right of presentation by turns. The appointment in 1901 belongs to the former. In other respects the provisions of Ordinance No. 57 apply to the Bursary. Value £10 16s. 8d.

*Bursar*—[1] Wylie R. M'Intyre, 1897.

JOHN FERGUSON JAFFREY BURSARY IN MENTAL PHILOSOPHY (*Arts*). —This Bursary, founded in 1877, is of the annual value of £34, and shall be awarded to a student on entering the third session of his attendance, *i.e.* a student who has attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who having passed the Preliminary Examination in Humanity and Greek, has attended for one session the higher classes in those subjects, and who proposes to attend in the following sessions the classes of Logic, Moral Philosophy, and English Literature. Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary shall, as a rule, be tenable for two years, but on condition that the Bursar, during the two years of his tenure, shall complete his attendance on the classes of Logic, Moral Philosophy, and English Literature, and shall also attend one at least of the advanced classes taught by the Professors of Logic and Moral Philosophy, and shall pass the examinations in Logic, Moral Philosophy, and English Literature for graduation in Arts. The subjects of examination are—1. *Logic*: (*a*) Descartes, *Meditations*, (Veitch's translation); (*b*) Ferrier, *Lectures on Greek Philosophy*, the pre-Socratic period; 2. *English Literature*: (*a*) Shakespeare, *As You Like It*; (*b*) Tennyson, *Idylls of the King*. Candidates are not expected to deal with questions of textual criticism on either of the works in English Literature.

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[1] Vacant through lapse of time.

*Bursar*—[1] Sydney M. Macewen, 1899.

MALCOLM KERR BURSARIES (*Science, etc.*).—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for that subject in the examination for the ordinary degree of M.A., and in Chemistry, the same as those for the Final Science Examination for B.Sc. Present value, £20 to each Bursar.

*Bursar in Chemistry*—James A. R. Henderson, 1899.
*Bursar in Natural Philosophy*—[2] Archibald M. Macmillan, 1899.

THE KINTYRE (KER) BURSARY (*Any Faculty*).—This Bursary, founded in 1862 by Robert Ker, Esq., of Auchinraith, merchant in Glasgow, originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the natives of Kintyre."

The Office-bearers of the Kintyre Club were appointed Patrons. By the Deed of Mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the Patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applicants must be connected with Kintyre, and be entering the

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[1] Vacant through lapse of time.
[2] Bursar resigned.

University for the first time. When a vacancy occurs application should be lodged with the Honorary Secretary of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 10th June. (Vacant.)

The Kintyre (Alexander Love) Bursary (*Any Faculty*).—This Bursary was founded in 1890 by the family of the late Alexander Love of Campbeltown. It consists of the free proceeds of a sum of £300 sterling—about £11—and is administered by the Office-bearers of the Kintyre Club. The Bursar must be a native or the son of a native of Kintyre, or actually resident there, and entering upon his first session at the University. His circumstances must be such as to render aid important. The period of tenure is not to exceed four years. When a vacancy occurs application should be made to the Hon. Sec. of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow, on or before 31st May.

*Bursar*—Kenneth Stewart, 1899.

Laing Bursary or Bursaries (*Arts*).—The late Alexander Laing, LL.D., some time Professor of Mathematics in Anderson's College, Glasgow, who died in 1882, bequeathed to trustees the sum of £500 to found one or two Bursaries in the Faculty of Arts. The trustees by a deed dated 26th July, 1883, conveyed to the Senate the sum of £500 of the preference 4 per cent. stock of the Glasgow and South-Western Railway Company, under certain conditions and regulations. The foundation is for providing, in the option of the Senate, one Bursary of £20, or two of £10 each. The Bursary is open to competition to all students entering on their first session in the Faculty of Arts (a preference being given, *caeteris paribus*, to natives of Brechin). The period of tenure is three years. Should the Bursary become vacant otherwise than by lapse of time, the income of the fund during the vacancy is to be added to capital.

*Bursar*—James A. Neilson, 1899.

James Laing Bursaries (*Arts*).—Founded in 1892, under the Trust Disposition and Settlement of Mr. James Laing, Writer, Denny. So far as the funds admit, the Trustee appoints annually to two Bursaries, each of the annual value of £25, and tenable for four years. They are open to candidates (male and female) who have been educated for at least three years in any school or schools in the County (including the Burgh) of Stirling, and who are entering upon their first or second year of study in the University of Glasgow. Applications with certificates of qualification and good conduct from the teacher or teachers under whom candidates have been educated, should be lodged with Mr. William Jenkins, Writer, Denny, not later than 1st September. The names of candidates who are found qualified will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries. Failing candidates qualified as above, the Bursaries are open to competition to students of the first or second year from any part of Scotland. (Two vacancies.)

*Bursars*—[1] Charles M. Drew, 1897; [1] Charles A. Young, 1897; John G. Gibson, 1898; James Bain, 1898; Peter Marshall, 1899; David K. Chalmers, 1899; James Burns, 1900; John B. Stephen, 1900.

LAMB BURSARY (*Arts or Theology*).—Founded in 1863 by the late Rev. Dr. William Lamb, minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael. The preference to applicants in the parish of Carmichael or Pettinain, and the restriction to applicants from the Presbytery of Lanark, were cancelled by Ordinance No. 57 of the Universities Commission (1889). Value, about £12 per annum.

*Bursar*—Kate Wilson, 1900.

LEADBETTER BURSARY (*Arts*).—This Bursary was founded in 1855 by Mr. John Leadbetter, merchant, Glasgow. It was made tenable for four years, and the classes to be attended by the Bursar in each of the four years were prescribed. A preference was given to boys who had attended the five years' Classical Course of the High School of Glasgow. Patrons—The Lord Provost and Magistrates. Ordinance No. 88 of the Universities Commission (1889) empowers the Patrons to present to the Bursary any person who has completed the five years' Classical course of the High School of Glasgow, whom failing, any person, without restriction as to parentage, who has received a similar classical education elsewhere. The Bursar must attend the Latin and Greek classes in the University during at least one year, and thereafter continue a course of study in the University necessary for the Degree of Master of Arts. The Bursary is tenable for four years, but if the holder graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects the provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, applications are to be lodged with the Town Clerk, City Chambers, not later than 1st September.

*Bursar*—Francis Middlemiss, 1898.

ARCHBISHOP LEIGHTON BURSARY (*Arts and Theology alternately*). —Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, which were tenable for four years in Philosophy, and two or three years in Divinity. By Ordinance No. 86 of the Universities Commissioners (1889), the two Bursaries were combined into one of the annual value of £18, to be called the Archbishop Leighton Bursary. An appointment is made of a Bursar in the Faculty of Arts, and at the end of his period of tenure an appointment in the Faculty of Divinity, and so on alternately, the period of tenure in each case being three years, and a person who has held the Bursary in Arts being eligible for appointment also in Divinity. The appointment in 1901 will be in Arts. The provisions of Ordinance No. 57 apply to this Bursary. When a vacancy occurs, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar. Applications must be lodged with the Town Clerk, City Chambers, on or before 1st September.

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[1] Vacant through lapse of time.

*Bursar.*—[1] Alexander Macdonald (two years), 1899.

John Leyden Bursary (*Arts*).—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund consists of the sum of £429 3s. 8d. raised by subscription. The Bursary is open to free competition under the same regulations as the competition Bursaries in the University. Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the Degree of M.A.

*Bursar.*—James Stevenson, 1899.

James Lochhead Bursary (*Arts*).—Founded in 1886 in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £500 for that purpose, in memory of her brother, who died in Ohio. A preference is given to students of the name of Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. The Bursary is tenable for three years in the Faculty of Arts.

*Bursar.*—James M'Fadyen, 1900.

Lochhead and Mitchell Bursaries (*Arts*).—Two in number and of equal value, founded in 1886, in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £2,000 (free of legacy duty) for that purpose. The present annual value is £33 to each bursar. A preference is given to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. They are tenable for four years in the Faculty of Arts.

*Bursars.*—George S. Gordon, 1899; John Miller, 1900.

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[1] Vacant through lapse of time.

LOGAN BURSARIES (*One in Theology and One in Medicine*).—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. The preference to the names Logan and Johnstone was cancelled by Ordinance No. 57 of the Universities Commission (1889). The value of each is £17 per annum. Appointment by the Senate.

*Bursar in Medicine*—[1] John Ferguson, 1897.

*Bursar in Theology*—John Gilmour, M.A., 1900.

LORIMER BURSARIES (*Four in Theology, Four in Medicine, and Eight in Arts*).—By Trust Disposition and Settlement of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects:—1, Theology; 2, Medicine; 3, Philosophy; 4, Mathematics; and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

The following regulations have been adopted by the Senate:—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £25, and eight of the annual value of £19, and shall be tenable for three years.

2. Four Bursaries—viz., two at £25, and two at £19 shall be held by Students of Theology, and shall be open to competition to students entering the Divinity Hall. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the degree of B.D.

3. Four Bursaries—viz., two at £25, and two at £19, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow. The subjects of examination, which shall be prescribed by the Faculty of Medicine, are Elementary Anatomy, Elementary Chemistry, and Botany. The examinations are held at the same times as the Autumn Professional Examinations in these subjects, and, in the case of Chemistry and Botany, on the same papers. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed his Third Professional Examination for the degree of M.B.

4. Four Bursaries—viz., two at £25, and two at £19, shall be

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[1] Vacant through lapse of time.

open for competition to students who, having passed their whole Preliminary Examination, are entering on their second session of attendance, and who, not having attended the classes of Logic, Moral Philosophy, and English Literature, propose to attend these classes in the following sessions. Candidates shall be examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners shall be the Professors of English Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the Honours classes in English Literature, Logic, or Moral Philosophy. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed examinations in Logic, Moral Philosophy, and English for graduation in Arts.

5. Four Bursaries—viz., two at £25, and two at £10, shall be open for competition to students who, having passed the whole Preliminary Examination, are entering on their second session of attendance. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the class of Mathematics, and prosecute the course of study required for passing the Honours examinations in Mathematics and Natural Philosophy for a Degree in Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations in Mathematics and Natural Philosophy for graduation in Arts or the First Science Examination in these subjects for graduation in Science.

In session 1901-2 four of the above £25 Bursaries will be open to competition—viz., one in Theology, one in Medicine, one in Philosophy, and one in Mathematics. The Bursary in Theology will be decided by the results in the general competition for Bursaries in Theology. The competition for the Bursary in Medicine will be held on 30th September and 1st October, 1901. For the Bursary in Philosophy the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 276), and the examination will take place along with the Autumn examinations for M.A. in English and Logic. The examination for the Bursary in Mathematics will take place along with the Arts and Science Preliminary Examination in Mathematics, but may embrace higher papers.

*Bursars in Theology.*—[1] James W. Baird, 1898; James F. Pollock, 1899; Duncan M'Arthur, 1900.

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[1] Vacant through lapse of time.

*Bursars in Medicine*—[1] William A. Milne, 1898 ; John M. Kelly, 1899 ; Peter L. Sutherland, 1899 ; John Graham, 1900.

*Bursars in Arts*—[1] Charles A. Young (Phil.), 1898 ; [1] John C. Mann (Math.), 1898 ; John M. Hay (Phil.), 1899 ; David A. Thomson (Phil.), 1899 ; James H. Lindsay (Math.), 1899 ; William Sutherland (Math.), 1899 ; Donald Carswell, (Phil.), 1900 ; Thomas B. Morley, 1900.

LUMSDEN BURSARY (*Theology*).—This Bursary was founded in 1850, by Mr. James Lumsden, stationer, Glasgow. Value, £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow. The Patrons, viz., the Principal, the Professors of Divinity, Hebrew, and Church History, and the President of the Stationers' Company —have resolved that when no candidate with a preferential claim applies for the Bursary it shall be awarded in accordance with the results of the competition for Bursaries in Theology. (Vacant.)

LUSK BURSARY (*Arts*).—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for "a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry in connection with any of the Presbyterian bodies in Scotland," "and who may, on public examination or competition, be found to be best qualified and most deserving." The competition is open to first or second year's students in Arts. Tenable for three years, but may be continued for an additional year. Value, £30 per annum.

*Bursar*—[1] George Muir, 1897.

MACARTHUR BURSARY (*Medicine*).—Founded in 1881 by Miss Jean Macarthur, in memory of her uncle, John Macarthur, Doctor of Medicine in Glasgow. The Bursary consists of the annual proceeds of £500. The administration is vested in a Committee appointed annually by the Faculty of Physicians and Surgeons of Glasgow. The Bursary must be held by a student prosecuting the study of Medicine in the University of Glasgow. Under the rules laid down by the Committee, applicants must have completed three winter sessions of medical study, and not have entered on the fourth winter session. Preference will be given to applicants who have taken one or more First Class Certificates in the Medical Classes. The Bursary is tenable for two years.

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[1] Vacant through lapse of time.

Application to be made prior to 15th October to Alexander Duncan, LL.D., Faculty Hall, 242 St. Vincent Street, Glasgow, who will furnish forms of application.

*Bursar*—[1] James M'Pherson, M.A., 1899.

M'Crie Bursaries (Arts).—These Bursaries were founded by the Rev. James M'Crie, D.D., of Dangart, Senior Minister of the U.P. Congregation of Old Meldrum, in the County of Aberdeen. They are of the annual value of £25, tenable for four years, provided the holder passes a prescribed examination at the commencement of each session and complies with the other conditions mentioned in the Deed of Foundation. The Bursary fund consists of certain lands in the parish of Colmonell and other heritable and movable property mortified for the purpose and vested in the Magistrates and Town Council of Ayr. The candidates must have been born in the parishes of Ballantrae, Colmonell, Barr, Girvan, Ayr, Old Meldrum, Tarves, Daviot or Bourtie, or in the City of Aberdeen, or in the Town of Ayr. The students must also be the sons either of mechanics, or of cottars, or of farmers not paying more than £100 of yearly rent, or of ministers not having more than £150 of yearly income, without respect to religious sect or denomination. Candidates of the names of M'Crie, Forsyth, M'Cracken, or Spark, are to have a preference if otherwise deserving. The Bursaries may be held along with other Bursaries. When a Bursary on this foundation is vacant the competition takes place in October, and the examination is held in Ayr. Candidates are examined on the following subjects:—Classics: Latin, Greek. Mathematics: Arithmetic, Algebra, up to and including simple equations, Euclid, Books I. to III. English: Composition, Geography, and History of Scotland. Candidates must send their names and addresses to A. G. Young, Esq., Town Clerk, Ayr, not later than 1st October of the year in which a vacancy occurs. (Three vacancies.)

*Bursars*—[1] Martin Phillips, 1897; [1] Robert Alexander, 1897; Robert R. Rusk, 1898.

James Melville M'Culloch Bursary (Arts).—Founded in 1885 in memory of the late Rev. James Melville M'Culloch, D.D., minister of the West Parish, Greenock. It consists of the free annual income of about £400. It is open to competition to students of the first year in the Faculty of Arts, who shall have been educated for not less than three years at any school or schools in Greenock. Tenable for four years, the Bursar attending the qualifying course for the Degree in Arts. The second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations required for the Degree of Master of Arts. In the event of a vacancy occurring otherwise than by lapse of time, the Senate may appoint a student of the same standing qualified in like manner, or may arrange a new competition.

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[1] Vacant through lapse of time.

*Bursar*—John M. M'Gauley, 1898.

MACDONALD BURSARIES (*Arts, Law, or Medicine*).—Two in number, founded in 1882, in terms of the Trust Disposition and Settlement of Mr. Alexander Macdonald, M.P., who bequeathed to the University £1,000 for the purpose of assisting students in a course of purely secular education. The Bursaries are equal in value and tenable for four years in Arts, Law, or Medicine. Only miners under the age of twenty-one years, who have worked underground in any part of the United Kingdom, are eligible as candidates. The Bursaries are awarded in accordance with the results of an examination in general knowledge, particularly in writing, arithmetic, geography, grammar, and history. (Both vacant.)

JOHN AND ISABELLA MACDOUGALL BURSARIES (*Arts*).—Founded in 1884, under the Trust Disposition and Deed of Settlement of Miss Isabella Macdougall, Perth. Miss Macdougall directed her Trustees to devote the residue of her means and estate to the foundation and endowment of one or more Bursaries, payable to students born in the county or city of Perth, attending the classes in the Faculty of Arts, in the Universities of Edinburgh, Glasgow, and St. Andrews. The Bursaries are of the annual value of about £33, and are tenable for a period not exceeding three years. The Trustees are the Patrons. The candidates, who may be of any religious denomination, must undergo an examination by examiners appointed by the trustees. The Bursaries are open to students who are either (1) about to enter on their first session, and who shall pass the Preliminary Examination in Arts, or (2) who have already attended the junior classes for one session. A vacancy occurring otherwise than by lapse of time may be filled up by the appointment, after examination, of a student of equal standing with the retiring Bursar. It is not competent for any person to hold any of these Bursaries along with any other Bursary or appointment yielding to him an annual income of fifty pounds or upwards. The Trustees are the following ministers in Perth, viz.:—The Rev. Wm. G. H. Carmichael, East Church Parish; the Rev. F. H. Martin, St. Paul's Church Parish; the Rev. Peter R. Landreth, West Church Parish; the Rev. William Main, Middle Church Parish; and their successors in office for the time being, Mr. Thomas Soutar, retired banker, and Mr. Wm. Cochrane Young, solicitor in Perth. Candidates are requested to send in their names and addresses to Mr. Young, 9 St. John Street, Perth, on or before 1st September.

*Bursars*—[1] William L. Fordyce, 1898; William Campsie, 1899; Robert Archibald, 1899; Duncan M'Laren, 1900.

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[1] Vacant through lapse of time.

Malcolm M'Ewen Bursary (*Arts or Science*).—Mr. William M'Ewen, tobacco manufacturer, Glasgow, who died on 16th December, 1878, by his Trust Disposition and Settlement dated 28th November, 1878, directed his trustees, Mr. James Boyd, writer, Glasgow, and others, to devote a sum of £500 to the foundation of a Bursary in the University of Glasgow, to be called the "Malcolm M'Ewen Bursary," in memory of his brother, Mr. Malcolm M'Ewen, who died on 16th January, 1878. The Bursary was founded in 1884. After consultation with the Senate, the Trustees resolved that the regulations for the Bursary should be as follows:—The Bursary is open to competition at the annual Bursary Examination to all students entering on the first session of attendance at the University, is awarded by the Senate in accordance with the results of that examination, and is tenable for four years. The Bursar on his appointment must elect to follow either the course of study qualifying for the Degree of M.A., or the course of study qualifying for the Degree of B.Sc., and must attend at least two classes each winter session. The Bursary is payable by equal moieties on the second day of February, and at the close of the winter session, but the second moiety of the fourth year's Bursary shall not be paid until the Bursar shall have passed all the examinations for the Degree appropriate to the course of study chosen by him at the beginning of his tenure of the Bursary. A vacancy occurring otherwise than by lapse of time may, in the discretion of the Trustees, either be filled up at the first term thereafter, or not till the usual term at which the competition for the Bursary would, in ordinary course, have fallen due, and, in the latter event, accumulations from this source are to be added to the capital fund.

*Bursar*—[1] Alexander B. Lamont, 1897.

James Macfarlane Bursary (*Theology*).—Miss Helen Macfarlane, who died on 12th March, 1886, by a Codicil dated 15th August, 1882, to her Trust Disposition and Settlement, directed her Trustees to hand over to the Senate the Portrait of her late brother, Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and the sum of £1,000 free of legacy duty for the foundation of a Bursary in the Faculty of Theology, in memory of her brother, the Rev. Dr. James Macfarlane, minister of Duddingston. Preference to the name Macfarlane. The competition is open to Divinity students of the first year, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any four subjects taken out of at least two departments for graduation in Arts. The Bursary is tenable for three years, but in the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

*Bursar*—[1] Hector W. Mackay, 1898.

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[1] Vacant through lapse of time.

John Macfarlane Bursary (*Medicine*).—Founded in 1874 by the brothers and sister of the late Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and to his memory. Patrons—The Faculty of Medicine. It is of £40 annual value, and it is tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow. The subjects of Examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, is to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine. The subjects of Examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany. The examinations are held at the same times as the Autumn Professional Examinations in these subjects, and in the case of Chemistry and Botany on the same papers.

*Bursar*—Alexander Matheson, 1899.

Robert Macfarlane Bursaries.—By a Mutual Trust Disposition and Settlement of date 7th January, 1888, Miss Mary Ann and Miss Margaret Macfarlane directed their Trustees to make over to the Senate of the University of Glasgow a sum of £3,000 for the foundation of Bursaries in memory of their brother, Robert Macfarlane, Writer, Paisley, out of the estate bequeathed by him to them. The Bursaries are to be given to deserving students at the University of Glasgow looking forward to being lawyers, specially including students in the Law Classes, preference being given to young men connected with Paisley.

MacGrouther Bursaries (*Arts*).—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James MacGrouther. The Senate are the Patrons. The Bursaries are awarded by open competition among students entering the Faculty of Arts for the first time, and are tenable for four years; subject in each case to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A.

*Bursars*—James W. Buchan, £20, 1899; James H. Cockburn, £15, 1899.

M'Kechnie Bursaries (*Any Faculty*).—Two in number, founded by the Trust Disposition and Settlement of the late Thomas M'Kechnie, merchant in Girvan, who bequeathed for that purpose the sum of £2,000 to the Minister of the Established Church in

Girvan, the Magistrates of Girvan, and others, and appointed them patrons of the Bursaries. The Patrons, in nominating and presenting students to the Bursaries, are instructed to prefer, in the first place, such as are of the founder's kindred; secondly, such as are of the name of M'Kechnie; and thirdly, such as were born in the parish of Girvan, provided that such students are properly qualified by their previous education for entering the University of Glasgow. Failing candidates qualified as above, the Bursaries are to be awarded to those who shall be found best qualified and deserving. The Bursaries are tenable for four years. When a vacancy occurs application should be made to Messrs. W. and D. Andrews, solicitors, Girvan, early in August.

*Bursars.*—Charles Nelson (Arts), 1899; John M'Cartney (Med.), 1899.

MACKINTOSH MENTAL SCIENCE BURSARY (*Medicine*). Founded in 1889 by Dr. Donald Mackintosh of London, in memory of his brother, Dr. Alexander Mackintosh, for many years superintendent of the Royal Lunatic Asylum, Gartnavel. Value, about £31. Tenable for one year. The competition is open to matriculated students of medicine who have attended the Lectures on Insanity in the University, and will be awarded in accordance with the results of an examination conducted in June by the Professor of Practice of Medicine and the Lecturer on Insanity acting conjointly. The holder of the Bursary shall, while holding it, devote special attention to the practical study of Insanity to the satisfaction of the Faculty of Medicine.

*Bursars.*—Donald Steel and Alex. D. Thompson, equal, 1900.

M'KISSACK BURSARY (*Medicine, Arts, or Divinity*). Founded in 1900 in terms of the Trust Disposition and Settlement of Mrs. Jane M'Kissack, Nairn, who bequeathed £700 for that purpose, in memory of her husband, Charles M'Kissack. The Patrons of the Bursary are the Provost and Bailies and the Ministers of the Presbyterian and Congregational Churches in the Royal Burgh of Nairn. The Bursary is tenable for four years, and is to be given to a medical student prosecuting his studies at any College, University, or Training Institute approved by the Patrons, in preparation for Christian mission work among the Jews. Failing a student in medicine, the Bursary may be given to a student in Arts or Divinity having the same object in view. Applicants must be of British nationality and not under seventeen years of age at the date of presentation. Preference, *ceteris paribus*, will be given to candidates of the name of M'Kissack, or natives of the counties of Elgin and Nairn, or candidates who have at any time resided for twelve consecutive months in these counties. The first presentation to the bursary will be made in September, 1901. For further particulars apply to Messrs Lamb & Co., solicitors, Nairn

MACLEAN TRUST BURSARIES (*Arts*).—Under the scheme for the administration of the Trust of the late Colonel Alexander Maclean, approved of by the Court of Session on 18th July, 1895, the Governors are authorised to apply a portion of the revenue of the Trust in payment of Bursaries of the yearly value of not less than £25 each, tenable for four years at any Scottish University. The Bursaries are open to students of either sex of the name of Maclean entering on the Arts curriculum, and are awarded by competitive Examination in such manner as the Governors shall determine. The Bursars must regularly attend at least two classes each winter session in the curriculum for a degree in the Faculty of Arts. But any Bursar who has held his Bursary throughout a three years' curriculum in the Faculty of Arts, and taken a degree in that Faculty, may continue to hold it during the fourth year in any other Faculty. The Governors are the Lord Provost and Magistrates of the City of Glasgow. Forms of application can be received in the month of April each year, from the Town-Clerk, Glasgow, with whom applications must be lodged. (No vacancy.)

*Bursars*—Donald Maclean, 1899; John Maclean, 1899; Margaret A. M. Maclean, 1899; Edith Louise Maclean, 1900.

MAITLAND CLUB BURSARY.—In 1888 Dr. W. H. Hill and Mr. J. Wyllie Guild, the then surviving members of Council of the Maitland Club, disposed of the remainder of the stock of the Maitland Club publications, and in pursuance of resolutions passed at meetings of the Council held on 3rd and 17th August, 1870, handed over the proceeds (£140) to the Senate for Bursary purposes. The free income is to be annually bestowed without any competitive examination on such student as the Senate may consider deserving. No appointment will be made until the free annual income amounts to £5.

MARSHALL BURSARIES (*One in Theology and One in Medicine*).—Mrs. Barbara Lauder or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her Will dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided "that the Principal and the Professors shall nominate and appoint such students only to the said Bursaries as they shall find, on such examination as they may appoint, to be properly qualified for entering upon the study of Divinity and Medicine at the said University." Present value, £15 per annum to each Bursar. The Bursary in Theology is vacant.

*Bursar in Medicine*—William L. Kirkwood, 1900.

Marshall Trust Bursaries (*Arts*).—Under scheme 198, section 29, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 17th March, 1888, the Governors of the Marshall Trust are instructed to apply (1) a sum not exceeding £300 per annum in providing University Bursaries. These Bursaries are awarded by competitive examination among pupils of either sex who have held free scholarships or school bursaries under the scheme, and pupils of either sex who are resident and attending public or State-aided schools in Lanarkshire or Stirlingshire, whose parents or guardians are of the class specified in section 25 of the scheme. The Governors may apply (2) a further sum of £300 per annum in providing similar Bursaries to be awarded solely to pupils who have held free scholarships under the scheme, who shall have competed for but failed to obtain any of the first mentioned Bursaries, but on condition that such free scholars shall pass the examination prescribed by the Governors. Each Bursary is £30 per annum, and is tenable for not more than five years. Forms of application may be obtained from the Secretary of the Trust, Mr. William Mitchell, 134 Wellington Street, Glasgow, and should be lodged with him on or before the 1st day of September in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for students of the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary in the general competition. Under (1) there are two vacancies, and under (2) there are also two vacancies.

*Bursars.*—[1] Dougald B. Macquistan, 1896; [1] Alexander Russell, 1896; [1] David G. Taylor, 1896; Thomas Graham, 1897; George Beaumont, 1897; Peter Carrick, 1897; John M'Laughlin, 1897; Archibald Lang, 1898; James P. Mackay, 1898; James Moyes, 1898; Matthew Stewart, 1898; William Manson, 1899; Robert Hamilton, 1899; John M'Lean, 1899; John M'Bryde, 1899; Edgar Barnes, 1900; Thomas L. Douglas, 1900; Neil M'Arthur, 1900; Margarette C. Paterson, 1900.

Menzies Bursaries (*Arts*).—The late Mr. James Menzies, of Glasgow, by his Will, dated 3rd November, 1837, left a sum of money to establish four Bursaries at either of the Universities of Edinburgh, Glasgow, or St. Andrews, tenable for four years, one to be given each year. The value of each Bursary is £45 per annum, but varies at the discretion of the Patrons. The Patrons are Sir Robert Menzies, Bart., of Menzies, and the Parish ministers of Dull, Weem, and Fortingall. In the first place, the kindred of the Testator; secondly, persons of the name of Menzies; thirdly, those born on the Menzies estates, will be preferred—provided always that they shall be found properly qualified by previous education; and failing these, the Patrons can present such as shall be found best qualified after due examination. The following are the subjects of examination:—*Latin*—Translation, (1) English into Latin; (2) Latin into English, with grammatical questions and exercises. *Greek*—Translation, Greek into English, with grammatical questions and exercises. *English*—(1) The growth, structure, and grammar of the language; (2) The History of English Literature; (3) A short essay on a prescribed subject. *Mathematics*—(1) Arithmetic, general; (2) Algebra, up to and including Quadratic Equations; (3) Geometry, Euclid, the first six books, and the first twenty-one propositions of the eleventh book, with deductions; (4) Trigonometry, up to and including the solution of triangles. Bursars to attend in some one of the above Universities the classes in their regular order for the M.A. Degree. Candidates are requested to send their names to Mr. John M. Menzies, The Menzies Estates Office, Aberfeldy, on or before 18th September. (One vacancy.)

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[1] Vacant through lapse of time.

*Bursars*—[1] Robert Menzies, 1897; Archibald Menzies, 1898; John M'Laren, 1899; J. C. H. Macnair, 1900.

MERCHANTS' HOUSE BURSARIES (*One in Arts, One in Law, and Two in Medicine*).—Founded in 1879 by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, which may also be held in Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2. The Bursary in Arts, or in Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechanics. 3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examination for the Bursaries in Medicine are the subjects of the Medical Preliminary Examination, and for the Bursaries in Arts and Law are those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics. When a vacancy occurs, applications should be lodged with W. H.

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[1] Vacant through lapse of time

Hill, LL.D., Clerk to the Merchants' House, on or before 1st September.

*Bursar in Arts*—Walter L. Henderson, 1898.

*Bursar in Law*—Harry J. Phillips, 1899.

*Bursars in Medicine*—John Pearson, 1899 ; Alexander C. Russell, 1900.

METCALFE BURSARIES (*Science*).—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her Deed of Settlement and Codicils, dated respectively 8th August, 30th September, and 7th October, 1853, bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th January, 1869, and by resolution of date 14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see Index), at least two Metcalfe Bursaries or Scholarships, each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy and Chemistry ; two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the elements of Plane Trigonometry, of Mechanics, and of Theoretical Astronomy, from among matriculated students entering the Intermediate Honours class of Mathematics, or the class of Chemistry. (Two vacancies.)

*Bursars*—[1] Alexander B. Lamont, 1899 ; James Sinclair, 1900 ; John H. Stewart, 1900.

MITCHELL (See Lochhead and Mitchell, p. 279).

MONTEITH BURSARIES (*Arts*).—Founded in 1869 by Mr. James Monteith of 38 Duke Street, St. James's, London. Three in number, each of the annual value of about £14, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1901-2 a regular three years' Bursary will be competed for, the examination being in French.

*Bursars*—[1] Archibald G. Bisset, 1898 ; John M'Millan (French), 1899 ; Robert K. Milne (German), 1900.

JOHN MONTEITH BURSARIES (*Medicine*).—Founded in 1884 by Mrs. Helen Monteith, Greenbank, Dowanhill Gardens, Glasgow, in memory of her husband, the late John Monteith. Mrs. Monteith assigned the sum of £1,000 to Dr. John Gray M'Kendrick, Professor of the Institutes of Medicine, Dr. James Duncan M'Laren, Fellow of the Faculty of Physicians and Surgeons in Glasgow, the late James Graham, LL.D., writer, Glasgow, and Robert Monteith, her adopted son, as trustees, in the first instance, for the administration of the fund. The annual income after payment of the expenses of administration is to be awarded as two Bursaries to students who have attended the first and second sessions of their professional studies in the University of Glasgow with a view to Graduation in Medicine in that University. The Bursaries are tenable for two years. One Bursary is awarded annually in the month of November, and is given to the candidate who gains the highest number of marks in the subjects of Anatomy and Physiology at the Professional Examinations in these subjects held during the previous year (*i.e.* the April and October preceding said month of November). The founder has directed that it be represented to the holders of the Bursaries that they should feel themselves in honour bound after graduation to render professional assistance to the poor as much as may lie in their power.

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[1] Vacant through lapse of time.

*Bursars*—[1] Donald Steel, 1899 ; Joseph White, M.A., 1900.

MORGAN BURSARIES (*Arts and Theology*).—Mr. John Morgan, West India Merchant, who died at Springfield House, Bishopbriggs, on 4th May, 1894, in his Trust Disposition and Settlement directed the Merchants' House to pay over half-yearly to the Presbytery of Glasgow one third of the net revenue of his estate to be applied in providing Bursaries for students in the University of Glasgow intending to become ministers of the Church of Scotland, one third to students in Divinity and two thirds to students in Arts. The students in Arts must be under twenty years of age, and must have passed the Preliminary Examination. The appointments are made for one year only, but may be renewed from year to year for one or more years. No Morgan Bursary shall exceed £20 a year. The holder of another Bursary of £20 or upwards cannot be appointed to a Morgan Bursary, but the holder of a Bursary of less than £20 may be appointed to a Morgan Bursary of such value that the two Bursaries together shall not exceed £20. Further particulars and schedules to be filled up by applicants may be obtained from the Presbytery Clerk.

MUIR BURSARIES (*Two in Arts or Science, Two in Science, and One in Theology*).—Founded in 1880, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of

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[1] Vacant through lapse of time.

£1,000 for providing a Bursary in connection with the Chair of Divinity, to be awarded to a student of Divinity during the last three years of his curriculum; a sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate; and a further sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the period of tenure to be fixed by the Senate. Any of the Muir Bursaries in Mathematics and Civil Engineering may be held along with another Bursary.

The following rules and regulations have, in accordance with the provisions of the Deed, been sanctioned by Mr. Muir's trustees, and are to be observed in all time coming:–

1. *Muir Bursary in Divinity.*—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in four subjects taken out of at least two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

2. *Muir Bursaries in Mathematics.*—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior Bursary for one year, the former being of half the annual value of the latter. The appointment shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. *Muir Bursaries in Civil Engineering and Mechanics.*—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineering course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics (Class IV.). Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any

which a satisfactory standard has not been attained by any competitors.

Arrangements for carrying out these rules and regulations may from time to time be made by the Senate and such thereof published in the *University Calendar*.

Appointments for Session 1902-3.—*Muir Bursaries: Mathematics.*—The appointment to the *Muir Bursary*, tenable during sessions 1902-3, 1903-4, shall be determined by the result of the examinations passed in the course of the session 1901-2 by the public students of the Ordinary Class of Mathematics. The successful candidate shall, *during* session 1902-3, attend the [illegible] Honours Class, and *during* session 1903-4 shall attend the [illegible] Class of Mathematics. The appointment to the Second Bursary, tenable during session 1902-3, shall be determined by the result of the written examinations passed in the course of the session 1901-2 by the public students of the Intermediate Honours Class. The successful candidate shall, during 1902-3, attend the [illegible] Honours Mathematical class.

*Bursaries in Civil Engineering and Mechanics.*—[illegible] Bursaries tenable during session 1902-3 must [illegible] attending during session 1901-2 Engineering Class II., with the [illegible] to have in a previous session attended the Public [illegible] Class of Engineering Drawing and Calculations, or those attending during session 1901-2 the Junior [illegible] Class of Engineering Drawing and Calculations who have in a previous session attended the Engineering Class II. or Class III. Appointment shall be made by consideration of work [illegible] examination, on, and by examination in the subject of [illegible]. The successful candidates shall, during session 1902-3, attend [illegible] Class of Civil Engineering and Mechanics (Class IV.).

Bursars in *Mathematics.*—Muir Bursars for session 1901-2, [illegible] Catherine and Annabella Lang [illegible]; John [illegible] 1900-1, 1901-2; Robert Clarke, 1901; [illegible] 1901-2, Robert Hamilton, 1901.

Bursars in *Civil Engineering and Mechanics* for session 1901-2 [illegible] M. Clark, B.Sc., 1901; Thomas W. Brown, B.Sc., 1901. [illegible] in Theology: John T. [illegible], M.A., 1901.

[illegible] Mills [illegible] Bursaries, Theology.—Established by the Governors of the Glasgow General Educational Endowment [illegible] Trust, under Section 31 of their Scheme. The bursaries are [illegible], each of £30 annual value. Candidates must have [illegible] the examination of the Presbyterial Board for admission to the [illegible] Hall of the University, and must lodge applications with [illegible] H. Macdonald, Hutchesons' Buildings, Ingram Street,

The Bursaries in Arts are tenable for three years. They are open to competition to students entering upon the first or second year of their attendance at the University, who purpose studying for the ministry in connection with the United Presbyterian Church, and who intend to qualify for and take, in the University of Glasgow, the degree of M.A. Each candidate before the competition must lodge with the Clerk of Senate, (1) a written declaration of his intention to comply with and observe these conditions, and (2) a certificate from the Chairman or Clerk of the Theological Committee of the United Presbyterian Church, bearing that the Candidate is recognized by that Church as an accepted student pursuing his studies with a view to the ministry therein. In October, 1901, three Bursaries of £35, £25, and £20 respectively will be offered for competition. The Examination is in Hebrew (Genesis, chap. xxiii., xxiv.) and Greek (Euripides, *Alcestis*, and Gospel according to Luke).

The Bursaries in Medicine are tenable for four years. They are open to competition to students entering upon the second year of their medical curriculum at the University of Glasgow, who intend to qualify for and take, in the University of Glasgow, the degree of M.B. Each candidate must before the competition deliver to the Clerk of Senate a written declaration of such intention. The subjects of examination are Mathematics and Natural Philosophy, and the papers will be on the same standard as the papers in Mathematics and Dynamics for the Bursary competition in Arts. Two Bursaries of £35 and £25 respectively will be offered to competition in October, 1901.

It shall be competent for the holders of these Bursaries, whether in Arts or in Medicine, to hold any other Bursary or Scholarship in this University, if the Regulations of that other Bursary or Scholarship permit.

*Bursars in Arts.*—[1] David R. M. Keir (£40), 1898; Alexander Borland (£40), 1899; John Walker (£20), 1899; John Whitelaw (£35), 1900.

*Bursars in Medicine*—[1] John B. Stewart (£30), 1897; [1] John Stewart, M.A. (£15), 1897; Archibald Leitch (£30), 1898; John Ferguson, M.A. (£15), 1898; James C. Pairman, M.A. (£30), 1899; Carl H. Browning (£15), 1899; Robert B. Carslaw, M.A. (£35), 1900; John L. Stewart, M.A. (£25), 1900; David J. M'Leish (£20), 1900; Peter Lowe, M.A., B.Sc. (£20), 1900.

PATRICK BURSARIES (*Arts*).—These Bursaries were founded in 1860 by Mr. William Patrick of Roughwood, W.S., and were originally two in number, the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of

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[1] Vacant through lapse of time.

£1,000 of the same stock. They were tenable for two years, but might be continued for other two. By Ordinance No. 85 of the Universities Commission (1889) the number of Bursaries was increased to three, all equal in value, and tenable for four years. If a Bursar graduate at the end of three years he shall only retain his Bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. In other respects also the provisions of Ordinance No. 57 apply to the Patrick Bursaries. Candidates must have gone through a course of education at some one of the Public Schools in the County of Renfrew, where a regular course of Classical Study is pursued, and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office).

*Bursars*—[1] Alexander S. Dunlop, 1897; William J. Auld, 1899; Adam Patrick, 1900.

PENDER MEMORIAL BURSARY. Founded in 1898 by a Committee of which the Marquis of Tweeddale was Chairman to commemorate the leading part taken by the late Sir John Pender, G.C.M.G., in the establishment and development of Submarine Telegraphy and in its extension throughout the world. The fund consists of about £1,650. The following regulations were made by the Senate after communication with the Glasgow and West of Scotland Technical College and the Committee:—1. That the holding of a Diploma in Electrical Engineering of the Glasgow and West of Scotland Technical College be a condition of appointment to the Bursary. 2. That the appointment to the Bursary be made by the authorities of the Glasgow and West of Scotland Technical College. 3. That the Bursary be tenable for one year. 4. That the Bursar be required during his tenure to attend in the University three full courses or their equivalent from among those that would constitute in his case a qualifying curriculum of study for the Degree of B.Sc. in Engineering. 5. That, in the event of there being no candidate deemed worthy of appointment in any year, the interest be held over to provide a second Bursary in a subsequent year.

*Bursar*—[1] John Kirkwood, 1900.

GLASGOW PERTHSHIRE SOCIETY'S BURSARY (1873). Founded by the Glasgow Perthshire Society in 1873. Value, £25, and tenable for three years. Open to competition to natives and sons of natives of the county of Perth, and also to sons of persons who are *bonâ fide* residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. Names of candidates to be sent to Messrs. George Gray and Son, County Buildings, Glasgow, Secretaries of the Society, not later than the twenty-fifth day of August preceding the competition.

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[1] Vacant through lapse of time.

*Bursar*—George Green, 1900.

POLLOCK BURSARIES (*Arts*).—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alex. Pollock, senior minister of the Free South Church, Paisley, who bequeathed £3,000, free of legacy duty, for that purpose. The Bursaries are designed to assist young men entering the University of Glasgow, whose circumstances are such as to render it desirable that they should have assistance in prosecuting their studies. The patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector, Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical study is pursued, certifying that he has completed his course of education at such school or academy. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office). Should no such qualified candidates present themselves, or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall be open to all the candidates in the ordinary Bursary Competition. The Bursaries are three in number, and are tenable for three years, during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations in four subjects taken out of at least two departments for graduation in Arts.

*Bursars*—[1] Robert C. M'Guire, 1898; Duncan D. Hair, 1899; William Brown, 1900.

T. and V. PRATT BURSARIES (*Any Faculty*).—The late Mr. Thomas Pratt, who resided at Castlevett, near Lanark, by his Trust Disposition and Settlement, dated 22nd December, 1877, directed his Trustees, as soon after his death as convenient for them, to set apart and invest in name of themselves and such other Trustees as they might deem suitable, a sum to yield an annual income of £40, for the purpose of establishing two Bursaries of £20 each, to be called the T. and V. Pratt Bursaries, to assist in maintaining and educating two students in the University of Glasgow or Edinburgh. The necessary funds have now been set aside and invested in name of Trustees for this purpose. The Bursaries are open to sons and daughters of working men residing in or belonging to the United Parishes of Wiston and Roberton, and the Parish of Lamington. His Majesty's Inspector of Schools for the district is to name the candidates found after examination to be best qualified and most deserving of the Bursaries, and the examination which, with the concurrence of the Trustees, he at present prescribes is the General Bursary Competition Examination in Arts at Glasgow University. The Bursaries are tenable for 4 years, or such shorter time as the Bursar may remain at the University, unless the Trustees are dissatisfied with the Bursar's conduct or diligence. When a vacancy occurs, applications should be lodged with the Trustees' Agents, Messrs. MacLean, Fyfe and MacLean, Writers, 115 St. Vincent Street, on or before 1st September. (Bursaries both vacant.)

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[1] Vacant through lapse of time.

Rainy Bursaries (*Medicine*).—In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Faculty of Medicine, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary Fund is to be divided annually between the two Bursars; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to £20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund shall at length yield £50 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

One Bursar shall be elected annually after competitive examination on the subjects of Anatomy, Chemistry, Botany, Physiology, and Zoology. The competition is to be open to all students who have completed two years of the regular Medical curriculum at the University of Glasgow, and who are about to commence their third winter session.

The successful candidate may hold his Bursary for two years, namely, during his third and fourth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct, is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

A Rainy Bursary will be awarded in November, 1901, to the qualified candidate who, not being the holder of a bursary of equal or greater value, shall be found to have passed in the year 1901 in Anatomy and Physiology of the second Professional examination, and whose aggregate of marks in these subjects and in Chemistry, Botany and Zoology of the first Professional examination, is the highest.

*Bursars*—[1] David Riddell, 1899 ; Carl H. Browning, 1900.

RAMSAY WALKER BURSARIES (*Arts*).—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years.

*Bursars*—Robert C. Thomson, 1900 ; John A. Swan, 1900.

ROSS BURSARY.—(See Hyndford and Ross, p. 275.)

JOHN ROSS, JUNIOR, BURSARY (*Theology*).—Founded in 1880 by Mrs. Ross, widow of Mr. John Ross, junior, merchant in Glasgow, in memory of her husband. Patrons—The Senate of the University. The Bursary Fund consists of the capital sum of £1,000, set aside by Mrs. Ross for that purpose. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on the first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third year's Burse shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

*Bursar*—Alexander Cross, M.A., 1899.

SANDERS BURSARY.—(See Boyd and Sanders Bursary, p. 251.)

[1] Vacant through lapse of time.

SCOTT BURSARIES (*Arts*).—The centenary of the birth of Sir Walter Scott was celebrated in Glasgow in 1871, and in conformity with a suggestion made by Lord Stanley (Earl of Derby), then Lord Rector of the University, the committee who had charge of the arrangements resolved to raise by public subscription a fund for the benefit of distinguished students, and to associate it with Scott's name. The amount subscribed was £3,000, and accordingly two Bursaries, along with the Scott Scholarship, were founded in 1874. The fund is administered by trustees, two of whom are elected by the Senatus, two by the Merchants House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Procurators, and one being an Assessor of the Council in the University Court, appointed by the four Assessors or a majority of them, in accordance with the provisions of Ordinance No. 31 of the Universities Commission (1889). The Bursaries are now three in number, each of the annual value of £20, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University.

*Bursars.*—[1] William Douglas, 1898; Robert M. Murison, 1899; Robert A. Houstoun, 1900.

SHEARER BURSARIES (*Any Faculty*).—Founded in the year 1887, by Archibald Shearer of Boag, who resided in Perth. By Deed of Mortification executed by Mr. Shearer dated 28th April, 1887, he conveyed his lands of Boag, in the parish of Kilbirnie, to trustees for the foundation and endowment of three Bursaries for the advancement of the higher education of the young men of his native parish of Dalry, in the county of Ayr. The Deed provides that the Bursaries shall be open to applicants between the ages of fourteen and twenty-four, who are the sons of parents or of a surviving parent *bona fide* resident for a period of not less than two years immediately preceding the date of application in the parish of Dalry, or to applicants who, for a period of not less than the last two years of their school curriculum, have received their education in the schools within the said parish, to enable the Bursars to pursue their education as students at the University in one or other of the Faculties. Students who have enjoyed a Bursary during their Arts course are eligible for a second Bursary in another Faculty. Applicants to undergo such examination as the trustees may from time to time appoint. Each Bursary to be one-third of free income from the lands of Boag, but not exceeding the annual sum of £30, and to be tenable for three years. Further information will be afforded by the Agents of the Trustees, Messrs. J. & J. M'Cosh, writers, Dalry.

*Bursars.*—[2] Andrew Henderson (two years), 1899; George Cunningham, 1900.

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[1] Vacant through resignation of Bursar.

[2] Vacant through lapse of time.

SMITH (CRUTHERLAND) BURSARY (*Any Faculty*).—In 1849 Dr John Smith of Crutherland founded two bursaries, which were not restricted to any particular Faculty. Patrons—The Directors of the Incorporated Company of Stationers. Sons of members of the Company are preferred, then sons of persons connected with any of the trades included in their charter, whom failing, such other students as may be approved of by the patrons. The value of each was £9 per annum, and they were tenable for one or more years at the option of the patrons. Ordinance No. 77, issued on 15th February, 1895, provides that the two bursaries shall hereafter be conjoined into one, and that the bursary shall be tenable for four years. If a bursar in Arts graduate at the end of three years, he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study approved by the Senate in subjects included in the curriculum for Degrees in Arts or in Pure Science. If a bursar in Divinity graduate at the end of three years he shall only retain his bursary during the fourth year of tenure if he shall engage in a course of study in Divinity approved by the Senate. Applications to be made to Mr. R. Brodie, 77 St. Vincent Street, Glasgow.

*Bursar*—Andrew Cunningham, 1900.

STEVENSON OF DALRY BURSARIES (*Arts*).—The Rev. Robert Stevenson, D.D., minister of the Parish of Dalry, Ayrshire, who died on 11th September, 1890, by his Trust Disposition and Settlement dated 28th July, 1890, directed his Trustees to pay over to the University Court the sum of £2,000, free of legacy duty, for the foundation of two Bursaries in Arts. They are open for competition to students entering on the first or second session of attendance in the Faculty of Arts, who are prosecuting their studies with a view to the ministry of the Church of Scotland, with a preference in the first place to natives of the parish of Dalry in Ayrshire, and in the second place to natives of the parishes of Bannockburn or St. Ninians in Stirlingshire. The Bursaries, which are of equal value, are tenable for four years.

*Bursars*—John R. Spence, 1898 ; Archibald A. Bowman, 1900.

STEWART BURSARIES (*Arts*).—These Bursaries, three in number founded in 1809 by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or the Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson were preferred, but this preference was cancelled by Ordinance No. 57 of the Universities Commission (1889). In case of a vacancy, a student of the same standing is appointed.

*Bursars*—Robert Cunningham, 1899 ; Alexander Murphy, 1900 ; Clark Nicholson, 1900.

STILLIE BURSARY IN MUSIC. This Bursary was founded by Mrs. Thomas Stillie in 1885, the Trustees being the Executive Council of Queen Margaret College, and their successors in office. The Trustees were to apply the annual proceeds of the investment of £125 in providing one Bursary, to be granted yearly to a student of Music, as a reward for proficiency in Music, and an encouragement to further study. The Trustees were empowered to make such regulations as they should see fit from time to time for testing the merits of the candidates, and also for prescribing the age of candidates and the course of study to be pursued in connection with Queen Margaret College or otherwise, which the Trustees might desiderate as a condition of awarding the Bursary. The University Court, having taken over Queen Margaret College, are the successors in office of the Executive Council of Queen Margaret College in respect of the Stillie Bursary Fund, which in January, 1895, amounted to £160. The following regulations have been adopted by the Court:— 1. The Bursary shall be awarded in connection with the examinations in Music conducted in Glasgow by the Associated Board of the Royal Academy of Music and the Royal College of Music. 2. The Bursary shall be awarded by the Senate on a report by the Examiners of the said Board. 3. Only candidates for the Senior Grade Examination shall be eligible, and the Bursary shall be awarded to the candidate examined in Glasgow who shall obtain the highest number of marks in that examination. 4. The Bursary shall not be awarded if the candidate with the highest number of marks has not obtained honours; and in that case the proceeds shall be added to the capital fund.

DR. STRANG BURSARIES (*Science*).—Mrs. Machen of Ferniecraig, Skelmorlie, who died recently, left funds for the foundation of four Bursaries, each of the annual value of £20, to be instituted in connection with the University of Glasgow, in memory of her brother, the late Dr. John Strang, City Chamberlain of Glasgow from 1834 to 1863. The Trustees under their powers have meanwhile agreed that these Bursaries should be tenable by students of Engineering Science in the University of Glasgow. Each Bursary is tenable for three years. The Bursaries shall be awarded on the results of the Science Preliminary Examination, and no candidate shall be appointed to a Bursary unless he passes the whole preliminary examination. Each Bursar shall be required to attend a course qualifying him for graduation in Engineering Science on the side of Engineering.

The Bursaries shall be payable by equal moieties in the month of January and at the close of the winter session, but the second moiety of the second year's Burse shall not be paid until the student has passed the first Science Examination for B.Sc. in Engineering Science, except in special circumstances. No student shall be entitled to hold a Dr. Strang Bursary who is receiving any other Bursary.

In each of the years in which two appointments fall to be made, the Trustees, in appointing to the second Bursary, will take into account, not only the results of the examination, but also, and specially, other circumstances (financial and otherwise) affecting the candidates.

Further particulars may be obtained from Professor Barr, D.Sc., Engineering Department, University of Glasgow, or from Messrs. Kerr & Barrie, Solicitors, 149 St. Vincent Street. (Two vacancies.)

*Bursars*—James M. Begg, 1899; Joseph Henery, 1899; Fryer T. A. Smyth, 1899.

STRUTHERS BURSARY.—(See Gilhagie and Struthers Bursary, p. 268.)

TAYLOR BURSARIES (*Any Faculty*).—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by Trust Disposition and Settlement of date 30th June, 1857, bequeathed to the University the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560, and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. The preference given to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and M'Arthur, was cancelled by Ordinance No. 57 of the Universities Commission (1889).

*Bursars*—[1]Joseph Barnes, 1897; [2]Robert A. Houstoun, 1899.

JAMES THOMSON PHILOSOPHICAL ENTRANCE BURSARY (*Arts, Phil.*).—Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died in 1876 before the close of his theological curriculum. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (*a*) Mental Philosophy and (*b*) English Literature alternately. The examination is open to all students of the first and second year who have not already attended the Logic, Moral Philosophy, or English Literature Class, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed his examinations in Latin and Greek for the M.A. Degree in Glasgow University. The subjects of Examination in Mental Philosophy and English Literature respectively are the same as for the John Ferguson Jaffrey Bursary. (See page 275.)

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[1] Vacant through lapse of time.

[2] Bursar appointed to a more valuable bursary.

The next examination will be held in October, 1901, the subject of examination being Mental Philosophy, and the Bursary will be tenable for one year.

Walkinshaw Young Bursary (*Law*).—Founded in 1878 by Major Young, Dunmore, Kirn, who bequeathed to the University a sum of £500, free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper

The following regulations have been adopted :—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have, at an examination in Arts, for the Degree of B.L. passed in not fewer than two Arts subjects, or have passed in any two subjects for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most distinguished. A student who passes a qualifying Examination in the October of the session in which an appointment is made, shall be held eligible within this rule, but one who has passed an examination in the October two years preceding such an appointment, and has not passed any subsequent qualifying examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or Scholarship in the University.

The next appointment to this Bursary will be made in December, 1902. Applications to be sent in to the Clerk of Senate on or before 1st December of that year.

*Bursar*—Roderick M. Nicol, 1900.

Walton Bursary (*Medicine*).—This Bursary was founded in 1763 by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £34 per annum. (Vacant.)

Andrew Weir Bursary (*Medicine*).—Founded in 1884, in terms of a Bequest by Mrs. Janet Maxwell or Weir, relict of Andrew Weir, feuar in Paisley. Mrs. Weir bequeathed the sum of £500 to the University, and directed the annual income of the legacy to be devoted to maintaining a Bursary in connection with the Medical School, in such a manner as the Senate may appoint. The Bursary is in memory of a son of the founder, Andrew Weir, a medical student of Glasgow University, who held subsequently the post of

Resident Physician in the Paisley Infirmary, and in the discharge of his duties there contracted a fever, of which he died. The Bursary is awarded annually at the beginning of the Winter Session, in accordance with the results of the second and third professional examinations, account being taken of the marks gained by all students who have passed both of these examinations within a period not exceeding thirteen months, reckoning backward from the date of the professional examinations in October of each year. During the tenure of this Bursary, which may be held along with another Bursary, the holder shall be bound to give regular attendance on the classes of the medical curriculum in the University.

*Bursar*—[1] Donald Steel, 1900.

William Whyte Bursaries (*Arts, Law, or Medicine*).—Four in number, founded in 1893 in memory of Mr. William Whyte, at one time Preceptor of Hutchesons' Hospital, in accordance with instructions contained in the Trust Disposition and Settlement of his daughter Mrs. Isabella Whyte or Bamber, who died in 1882. The Trustees executed a Deed of Mortification transferring £2,000, less legacy duty, to Hutchesons' Hospital. The Bursaries are each of the annual value of £25, and are tenable for four sessions in the Faculties of Arts, Law, or Medicine. They are open to competition by boys who have attended and completed the curriculum in the Secondary Department of Hutchesons' Grammar School. Candidates must give in their names to Messrs. Hill & Hoggan on or before 1st September in each year, to be sent to the Clerk of Senate, that they may be entered for the University Entrance Bursary Competition. One Bursary will be awarded every year to the candidate highest in the order of merit who shall not have gained and elected to hold a Bursary of equal or higher value at the general competition, provided his attainments have reached a standard satisfactory to the Patrons of Hutchesons' Hospital.

The sum of £408 15s. 8d. at the credit of the Fund at 31st December, 1892, is to be allowed to accumulate until that sum, with such additions as may accrue from any portion of the income that may not be required for the purposes aforesaid, shall amount to a sum which will produce a return of £20 yearly. There shall then be instituted a Bursary of that value, to be competed for by girls educated in Hutchesons' Girls' School, which Bursary shall be tenable at the University of Glasgow.

*Bursars*—[1] Richard Makins, 1897; David R. Mitchell, 1898; Allan R. Barrowman, 1899; John D. Simpson, 1900.

King William's Bursaries (*Two in Arts and Two in Theology*).—These Bursaries, founded by his Majesty King William III. in 1695, were formerly six in number and known as the Exchequer

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[1] Vacant through lapse of time.

Bursaries. They were tenable for six years—the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and the last three in Divinity. The bursars in Philosophy received £10 per annum each, and those in Divinity £13 6s. 8d. The Foundation was regulated by Act of Parliament, 1758. By Ordinance No. 99 the Universities Commission (1889) altered the conditions and directions affecting the Foundation, making two Bursaries in the Faculty of Arts each of the annual value of £15, and two in the Faculty of Divinity each of the annual value of £20. Each of the Bursaries is tenable for three years, and no longer. The Bursaries in Arts are open by competition to all students entering on their first year of attendance on a course of study for graduation in Arts. The Bursaries in Divinity are open by competition to all students who are Masters of Arts, or who have passed all the examinations necessary for graduation in Arts, and who are entering on their first year of attendance on a course of study for graduation in Divinity. In other respects the provisions of Ordinance No. 57 apply to the Bursaries on this foundation.

*Bursars in Arts*—John Hutcheson, 1899; James Miller, 1900.

*Bursars in Divinity*—James R. S. Wilson, M.A., 1899; Matthew Babington, M.A., 1900.

WILLIAMS BURSARIES (*Arts and Theology*).—The Rev. Dr. Williams, London, in the year 1711 bequeathed to certain individuals in London, in trust, an estate, to found Bursaries for educating natives of South Britain at the University of Glasgow. The founder, with a particular view to support the cause of Protestant dissent in England, directs that every Bursar on this foundation shall promise, in writing, to become a preacher among the dissenting ministers of that country. The Bursaries are tenable for three years, but renewable for another year on application, on the understanding that the student has graduated in Arts, and is about to enter the Divinity Hall. Value, £40 per annum each. The right of presentation is vested in the founder's trustees. Secretary to the Trust—Mr. Francis H. Jones, Dr. Williams' Library, Gordon Square, London, W.C.

*Bursars*—[1]Thomas Rook, 1898; Harold C. Rowse, 1900; John Lewis, 1900.

WILSONE BURSARY.—(See Boyd and Wilson, p. 252.)

GEORGE YOUNG BURSARY (*Science*).—By Trust Disposition and Settlement of date 30th August, 1892, Mrs. Catherine M'Farlane or Young, who died at Helensburgh on 4th November, 1893, directed her Trustees to make over to the Senate of the University of Glasgow the sum of £1,000, free of legacy duty, for the purpose of founding, in memory of her husband and son, a Bursary in connection with the class of Civil Engineering, on such terms and conditions as the Senate should from time to time fix. The Senate have determined that the Bursary shall, upon the recommendation of the Faculty of Science, be awarded to the candidate who has the best record in his First Science Examination. Students who have passed the whole of that examination or at least in Mathematics and Natural Philosophy with or without the higher branches specified in Ordinance No. 23, Section ix., Sub-sections 1 and 2, may offer themselves as candidates, but students who have completed their qualifying attendance in Engineering shall not be eligible. The Bursary shall be tenable for one year, during which the Bursar must attend a course of Laboratory Practice in Engineering and either a course (or half course) of Engineering Lectures or a course of Engineering Drawing. Appointment in the month of April after the Degree Examinations.

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[1] Vacant through lapse of time.

*Bursars*—[1] Thomas B. Morley, 1900.

MAJOR YOUNG'S FUND BURSARIES (*Law*).—Two in number, founded in 1890 by the Trustees of the late Major Young, founder of the Walkinshaw Young Bursary. The amount of the Bursary Fund is about £1,312, and each of the Bursars receives one half of the free annual income thereof. In accordance with Major Young's desire, the Bursaries are open only to applicants whose pecuniary circumstances are such as in the judgment of the Senate render it desirable that they should have assistance in prosecuting their studies at the University, preference being given, *cæteris paribus*, to natives of Argyllshire or Renfrewshire. One of the Bursaries is tenable for six years, and is awarded by competitive examination to a student of the first year who intends to study for a Degree in Law. The Bursar is required during his tenure of the Bursary to attend such classes and to pass such examinations for a Degree in Law as shall be held by the Senate to correspond to the successive stages of his course; and he must attend a class or classes in the Faculty of Law during at least the last two years of his tenure of the Bursary. The other Bursary is tenable for two years, and is awarded by competitive examination upon subjects prescribed by the Senate. Candidates must have expressed their intention of attending the classes of Scots Law and Conveyancing, and the Bursar must attend these classes in separate sessions during his tenure of the Bursary. Either of these Bursaries may be held with any other Bursary, Scholarship, or Prize in the University, but both shall not be held together by one Bursar. The subjects of examination are those prescribed for the General Bursary competition.

*Bursars*—Arthur J. Cubberley (six years), 1897; William R. Merry (two years), 1900.

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[1] Vacant through lapse of time.

## 2. *EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS.*

ALPHABETICALLY ARRANGED.

*N.B.*—In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition [illegible] for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

| Foundation. | No. of Scholarships, etc. | Tenable by | Approximate Annual Value of each. |
|---|---|---|---|
| Black Theological, | 1 | Masters of Arts of Scot. Univ., | £126 |
| Breadalbane, | 2 | M.A., or B.Sc., Eng., Glas. Univ., | £50 |
| Clark, George A., - - | 4 | 3 M.A., 1 M.A. or B.Sc., do. | £105 |
| Clark, John (Mile-end), | 12 | Arts Students at close of Course, | £30 |
| Coats Memorial, | 1 | Medical Graduates of Glas. Univ., | £60 |
| Cunninghame, - | 2 | Bachelors of Laws of Glas. Univ., | £54 |
| Donaldson, Alexander | 1 | Candidates for B.Sc. (Chemistry), | £40 |
| Donaldson, Robert, - | 2 | Bachelors of Science of Gl. Univ., | £64 |
| Eglinton, | 2 | Masters of Arts of do. | £65 |
| Euing, William, - - | 3 | Do. do. | £100 |
| 1851 Exhibition Science | 2 | Science Students, - | £150 |
| Ferguson, | 6 | Masters of Arts of Scot. Univ., | £80 |
| Foulis Memorial, - - | 1 | Medical Graduates or Licentiates, | £50 |
| Houldsworth, - - - | 1 | Research Students in Nat. Phil., | £150 |
| Lloyd's Register, - - | 3 | Students of Naval Architecture, | £50 |
| Luke, - - - - - - | 1 | Masters of Arts of Glas. Univ., | £95 |
| Mackay Smith, - - - | 2 | Students in Nat. Phil. and Chem., | £48 |
| Mackinnon, - - - - | 1 | (See page 324), | £50 |
| Metcalfe, - - - - - | 1 | Masters of Arts of Glas. Univ., | £100 |
| Reid-Stewart, - | 1 | Do. do. | £50 |
| Sandford, - - - - - | 1 | Greek Students, do. | £20 |
| Scott, - - - - - - - | 1 | Masters of Arts of do. | £80 |
| Shaw Philosophical, - | 1 | Do. Scot. Univ., | £140 |
| Snell (at Oxford), - - | 5 | Masters of Arts, etc., Glas. Univ., | £80 |
| Thomson Experimental | 3 | Students of Natural Philosophy, | £20 |
| Watt, James, - - | 1 | Bachelors of Science, - - - | £37 |

BLACK THEOLOGICAL FELLOWSHIP.—This fellowship, which is now of the annual value of £126, was instituted under the Will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the sanction of the University Court:—

1. The Black Theological Fellowship shall be tenable for one year.

2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland completing the ordinary curriculum of Theological study in the University of Glasgow in the academical year in which the examinations are held.

3. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

4. The Fellowship shall be awarded by the Theological Faculty at the close of the winter session to the most distinguished graduate in Divinity of the session qualified in terms of the foundation, but the Fellowship shall be awarded only if the Candidate has, in the opinion of the Faculty, attained a sufficient standard of merit.

5. The holder of the Fellowship shall, during the tenure of it, perform such duties—whether in the form of giving a short course of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship or Prize falling to be awarded at the same time, or subsequently during its tenure.

Subject to these regulations an appointment to the Fellowship will be made in April, 1902.

*Present Fellow*—Angus John Morrison, B.D., 1901.

BREADALBANE SCHOLARSHIPS.—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two Scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his Deed of Settlement made provision for the "annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be paid yearly to deserving students in this college, as Scholarships or Bursaries, to be called the 'Breadalbane Scholarships,' in such manner as shall be fixed by the Senatus Academicus of the said University."

The following regulations have been approved by the Senate :—

The number of Scholarships shall be two, of £50 each per annum, for the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination ; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in April immediately preceding.

Each scholar shall pursue such course of scientific study during the tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years; provided that at the end of the first and second years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully prosecuted the prescribed course of study.

*Scholars.*—[1] William Fulton, M.A., 1898; [1] Thomas Pullar, M.A. 1898.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the regulations:—

1. One of these Bursaries shall be competed for annually, at or immediately after the October examination for Degrees in Arts or Science.

2. The four Bursaries are assigned respectively to four of the Groups of Honours enumerated in Ordinance No. 11, Section XI., of the Universities Commission (1889), viz.:—(1) Classics; (2) Mental Philosophy; (3) Mathematics and Natural Philosophy; (4) English Language, Literature, and British History.

For the Classics Bursary or Scholarship either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Classics, may be candidates; for the Mental Philosophy Bursary or Scholarship, either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mental Philosophy, may be candidates; for the Bursary or Scholarship in Mathematics and Natural Philosophy either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Mathematics and Natural Philosophy, or Bachelors of Science of this University who have taken the degree of B.Sc. in Pure Science, or students presenting themselves for the final examination for the B.Sc. Degree in Pure Science in the subjects of Mathematics and Natural Philosophy, may be candidates; and for the Bursary or Scholarship in English either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in English, may be candidates.

But no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. Degree or the B.Sc. Degree.

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[1] Vacant through lapse of time.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University as the Senate may determine.

4. The subjects of examination each year shall be those which constitute the examination for Honours in one of the above-named Groups (the Group selected each year for examination to be publicly announced). The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required of graduates in Arts with highest honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year; but it shall be in the power of the Senate to hold an examination for the same Scholarship, and in the same subjects, in the following year; provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed; but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for scholarships to be held for less than four years, no student shall be admitted to examination who would not be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree of M.A. with Honours in each of the several departments, and for the Degree of B.Sc.

One of these Bursaries or Scholarships will be competed for, subject to the foregoing regulations, in October, 1901. It will be tenable for four years, and the examination will be in the first of the four groups above enumerated, viz., Classics.

Candidates are requested to give in their names to the Assistant Clerk (Matriculation Office), not later than 18th September.

*Bursars.*—[1] David H. Crawford, M.A., 1897 (Classics); Hugh R. Buchanan, M.A., 1898 (Mental Philosophy); George D. Valentine, M.A., 1899 (Mathematics and Natural Philosophy); John L. Morison, M.A., 1900 (English).

JOHN CLARK (MILE-END) SCHOLARSHIPS.—By the Deed of Constitution regulating the John Clark Bursaries (see page 250), the Founder, Mr John Clark, also instituted Scholarships of £50 annual value, open for competition to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University. The Scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the trustees, and are tenable for four years, subject to the condition that the Scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the trustees, any other profession or business they may prefer. The trustees have resolved that they will not appoint to a Scholarship any one who already holds, or has held, a Scholarship of equal or greater value, and that extra training in the subject of competition obtained by attendance at another University will be regarded a disqualification. Three Scholarships will be competed for in October, 1901, one in the Group of Classics, one in the Group of Mental Philosophy, and one in the Group of Mathematics and Natural Philosophy. The examination will be on the subjects prescribed for the Degree of M.A. with Honours in the respective Groups.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), and also to Mr. Wm. Ralston, 65 West Regent Street, Glasgow, on or before the 18th September.

*Scholars.*—[1] James Johnston, 1897; [1] William W. Fulton, 1897; [1] David M. Stewart, 1897; Joseph White, 1898 (Math. and Nat. Phil.); John Lochhead, 1898 (English); William M. R. Pringle, 1898 (History); George Ogilvie, 1899 (English); Robert M'Ewan, 1899 (Classics); James F. Dyer, 1900 (Classics); Alexander B. Mackay 1900 (Mental Philosophy); Thomas Jones, 1900 (Economic Science).

JOSEPH COATS MEMORIAL SCHOLARSHIP.—Founded in 1900 by the friends of the late Professor Coats, as a memorial of his distinguished services to Pathological Science, and in recognition of the ability and enthusiasm which he devoted to advance the teaching of the subject in Glasgow. The Scholarship is for the encouragement of original research in Pathology, is awarded biennially, and is tenable for one year. The Committee of subscribers paid over to the University Court £1,200, to the free proceeds of which for the two preceding years the Scholar is entitled during his year of tenure. Candidates must be graduates in Medicine in the University of Glasgow of not more than three years standing. The Scholarship will be awarded by the Senate on the results of a practical examination in Pathology, conducted by the Professor of Pathology with the assistance of two other members of the Faculty of Medicine to be appointed by the Senate in the beginning of October of every second year. The successful candidate must, for nine months following the award, prosecute research in Pathology with the Pathological Institute at the Western Infirmary, or in a Laboratory elsewhere approved of by the Faculty of Medicine, and shall not engage in Medical or Surgical practice during that period. The first appointment will be made in the beginning of session 1903-4.

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[1] Vacant through lapse of time.

ANDREW CUNNINGHAME SCHOLARSHIPS.—Mr. Andrew Cunninghame, Town Clerk Depute of Glasgow, who died in 1886, bequeathed to the University, free of legacy duty, £5,000, for the purpose of completing the tower, and also £350, the annual revenue of which was to be applied in purchasing a gold medal as a prize in the class of Mathematics. He also bequeathed to the Senate £2,000 for two Bursaries or Scholarships in connection with the Scots Law and Conveyancing Classes. The following regulations were adopted by the Senate on 15th March, 1888:—

1. One half of the free income of the bequest shall be applied for the purpose of a Scholarship in connection with the class of Scots Law, and the remaining half for the purpose of a Scholarship in connection with the class of Conveyancing.

2. Each Scholarship shall be tenable for two years.

3. On each vacancy the candidate who, in the opinion of the Senate, is the most distinguished Bachelor of Laws of the year, shall be appointed, special consideration being given to eminence in Scots Law and Conveyancing.

4. Students who have been found qualified for the Degree of LL.B. at the spring and winter graduations of the year in which the appointment is made, shall be eligible as candidates.

5. The conditions of holding the Scholarships are that the scholars give such assistance in the work of the classes of Scots Law and Conveyancing respectively as the Professors of these classes may require, subject to the approval of the Senate.

6. In the event of a vacancy occurring during the tenure of any Scholarship, the Senate may, if they think fit, appoint a Scholar to hold the Scholarship for the unexpired period.

An appointment to the Scots Law Scholarship will be made in November, 1901.

*Scholar*—Malcolm Dunlop, LL.B., 1900 (Conveyancing).

ALEXANDER DONALDSON SCHOLARSHIP OR BURSARY.—Founded in 1881 by Will of the late Mr. Alexander Donaldson, iron merchant in Glasgow, who bequeathed to the Senatus of Glasgow University £1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

The following regulations were adopted by the Senate on 1st May, 1884:—

1. The Scholarship shall be awarded to the candidate who, presenting himself for the first examination for the Degree of B.Sc. held in the month of April, shall stand highest in Chemistry.

2. The Scholarship shall be tenable for two years.

3. The second moiety of the second year's stipend shall be paid only after the Scholar has passed all the examinations for the Degree of B.Sc.

These regulations apply to students proceeding to the Degree of B.Sc. under the new regulations for that Degree.

The next appointment will be made after the B.Sc. examination in April, 1902.

*Scholar*—Louis N. Gow, 1900.

ROBERT DONALDSON SCHOLARSHIPS.—Founded in 1887 by the trustees of the late Mr. Robert Donaldson, iron merchant, Glasgow, who left £2,000 to the Senate for two Scholarships for such scientific purposes as his trustees should approve. The following tentative scheme has been approved by the trustees:—

1. The income of the fund shall be devoted for two years alternately to Scholarships in Chemistry and Biology.

2. Each Scholarship shall be tenable for two years.

3. Students who have taken the Degree of B.Sc. in Glasgow University shall be eligible.

4. The appointment shall be made by the Senate on a report as to the merits of the candidate or candidates by the Professor of the subject.

5. The scholar appointed shall devote himself for two years in this University, or for one year in this University and the other in such place as the Senate may approve, to research in the subject in which he has obtained the Scholarship. The holder of the Scholarship in Biology shall have the option of selecting Zoology or Botany as the subject of research.

6. The Senate are not bound to make an appointment unless the candidate is in their opinion qualified.

The appointment in November, 1902, will be in Biology.

*Scholar*—Ruth Pirret, B.Sc., 1900.

EGLINTON FELLOWSHIPS.—On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating in a suitable manner his virtues and public services; and, subscriptions having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum as a Scholarship or Fellowship Fund in the University of Glasgow.

By the Trust Deed of date November 8th, 1865, the net yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall from time to time be fixed by the Senatus Academicus of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition,[1] and the Fellowships shall be awarded by the Senatus Academicus of the University to those students who have shown themselves in a public competition to have acquired the greatest amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the Senatus Academicus of the University, who shall fix the subjects of examination, and the relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships:—

1. The number of the Eglinton Fellowships shall be two (of about £65 per annum each), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The competition for the Fellowship shall be open only to deserving students who shall have taken the Degree of Master of Arts in the University of Glasgow, at the term preceding the competition.[1] In the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

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[1] *i.e.* Either at the ordinary graduation in April or at the supplementary graduation in November.

3. One of the Fellowships shall be open to competition in October, 1866, and thereafter triennially (1902); and the other in October, 1867, and thereafter triennially (1903)

4. The successful candidate shall undertake, during his tenure of the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The Examination for the Eglinton Fellowship to be competed for in October, 1890, and thereafter sexennially (1902), shall be in Classics; and the Examination for the Eglinton Fellowship to be competed for in 1893, and thereafter sexennially (1905), shall be in Mental Philosophy.

The subjects of examination in Classics and Mental Philosophy respectively shall be the same as those for the Degree of Master of Arts with Honours.

6. The Examination for the Eglinton Fellowship to be competed for in October, 1897, and thereafter sexennially (1903), shall be in Mathematics and Natural Philosophy; and the Examination for the Eglinton Fellowship to be competed for in October, 1900, and thereafter sexennially (1906), shall be in English (Language, Literature, and British History).

The subjects of examination in Mathematics and Natural Philosophy and in English respectively shall be the same as those for the Degree of Master of Arts with Honours.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to compete for the Eglinton Fellowship.

The next ordinary competition will take place in October, 1902, the subject of examination being Classics.

*Fellow*—Ritchie Girvan, M.A., 1900 (English).

WILLIAM EUING FELLOWSHIPS.—Founded in 1874 by Mr. William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable books, the sum of £6,000 for the endowment of three Fellowships, each of the value of £80 per annum, and tenable for not more than five years. The Fellowships are open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and are awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months in the year, and "to open private classes of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purpose by a systematic course of private tuition."

One Fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy, and English Literature.

The Senate have issued the following regulations for the competition for these Fellowships :—

1. In the department of Classics there shall be one Fellowship competed for in October, 1875, and thereafter at intervals of four years (1903), the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in October, 1876, and thereafter at intervals of three years (1903), the period for which the Fellowship in the department of Mental Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in October, 1875, and a Fellow appointed for two years ; the Mathematical Fellowship becoming vacant in October, 1877, shall be filled up for a period of three years, the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be filled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

One of these Fellowships, value £100 per annum, will be open to competition in October, 1901. It will be tenable for three years, and the examination will be in Mathematics and Natural Philosophy.

*Fellows*—[1] Robert J. T. Bell, M.A., 1898 (Mathematics); Robert D. Bell, M.A., 1899 (Classics); Alexander Montgomerie, 1900 (Mental Philosophy).

EXHIBITION (1851) SCIENCE RESEARCH SCHOLARSHIPS.—Her Majesty's Commissioners for the International Exhibition of 1851 have instituted Science Scholarships, each of the annual value of £150, and tenable for two years, subject to the scholar's first year's work being deemed satisfactory by the Scientific Committee of the Commissioners. The nomination to a Scholarship has been placed at the disposal of this University in each year since 1891, and it is anticipated that similar arrangements will be made in future years.

Candidates must be British subjects, and must have been students of Science in some approved institution or institutions for a period of three years, at least the third year of the period having been spent in this University. Capacity for original research tending to advance Science or its applications is required as the main qualification. The Scholarships may be held at any University in England or abroad, or in some other institution approved of by the Commissioners; and every scholar will, in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated. He must devote himself to some particular scientific work in connection with those branches of Science, such as Physics, Mechanics, and Chemistry, the extension of which is especially important to our national industries. A sum of £25 is reserved from the fourth half-yearly instalment, and paid by the Commissioners on receipt from the Scholar, after the expiration of his Scholarship term, of a satisfactory report of his study and research during the term.

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[1] Vacant through lapse of time.

When a nomination falls to be made in any year, due notice will be given to enable candidates to lodge their applications with the Clerk of Senate before the beginning of April. Every application must be accompanied by a statement of the scientific study (including original research) in which the candidate has been engaged, and of the work to which he proposes to devote himself if appointed to the Scholarship.

*Scholar*—Vincent J. Blyth, M.A., 1900.

FERGUSON SCHOLARSHIPS.—With a view to the encouragement of the higher learning in Scotland, the trustees of the late Mr. Ferguson, of Cairnbrock, out of his legacy of £80,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called "The Ferguson Scholarships."

The examination of candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 24th September next, and following day. One of the Scholarships will be awarded for the greatest proficiency in Classics; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest proficiency in Mental Philosophy, including Logic, Psychology, Metaphysics, and Moral Philosophy.

Subjects for examination—

CLASSICAL SCHOLARSHIP.—*Latin*—Plautus—*Captivi*. Propertius, I., II. Virgil—*Eclogues*, and Ribbeck's *Appendix Vergiliana* (Teubner), omitting *Aetna*. Cicero—*Pro Marcello* and *Brutus*. Statius—*Silvae*. Livy, VIII. and IX. Suetonius—*Vespasian*, *Titus*, *Domitian*. Translations from Authors not prescribed. Latin Prose Composition.

*Greek*. Homer—*Odyssey*, VI.—XII. Pindar—*Nemeans*. Euripides—*Medea*, *Hippolytus*. Callimachus (U. von Wilamowitz-Moellendorff's text). Apollonius Rhodius, III., IV. Xenophon—*Symposium*, *Oeconomicus.* Plato—*Symposium.* Demosthenes—*In Androtionem, In Aristocratem.* Translation from Authors not prescribed. Greek Prose Composition.

General questions on Greek and Roman History, Literature, Language, Antiquities, etc. The questions will bear especially upon the books prescribed.

MATHEMATICAL SCHOLARSHIP.—*Mathematics*—Euclid's Elements. Modern Geometry. Algebra, including Determinants, Finite Differences, and Theory of Equations. Trigonometry, Plane and Spherical. Analytical Geometry, in two and three dimensions. Differential and Integral Calculus, and Differential Equations.

*Natural Philosophy.*—Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of Solids and Fluids. Acoustics, Heat, Light, Magnetism and Electricity, treated both mathematically and experimentally.

Candidates will be allowed a choice of questions, and may obtain full marks by showing good general knowledge and an intimate acquaintance with any branches they may have specially studied.

PHILOSOPHICAL SCHOLARSHIP.—*Logic.*—Province and History of Logic. Notions, Judgments, and Inferences. Recent developments of Formal Logic. Fallacies. Theory and Methods of Scientific and of Historical Proof.

*Psychology and Metaphysics.*—The Phenomena and Laws of Mental Life and of its Development. Theory of Knowledge. Theory of Reality.

*Moral Philosophy.*—Psychology and Metaphysics of Ethics. Relations of Ethics to Law, Politics, and Economics. Applied Ethics.

*History of Philosophy.*—History and Critical Analysis of Ancient and Modern Systems of Philosophy.

The competition will be open to all persons who have passed the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the degree at the same time or not), provided that, at the time of the competition, not more than six years have elapsed since the date of their first matriculation after having passed the Preliminary Examination, and who have not already gained one of these Scholarships.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 60 per cent. of the possible marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following rule of the trustees:—

"Persons gaining the Scholarships will be expected, during the "tenure thereof, to prosecute studies in furtherance of the higher "learning; and those who have not graduated shall be required to "do so before the last payment is made."

Certificates will be granted to such of the unsuccessful competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examinations.

Candidates are requested to give in their names, personally or by letter, at the Office of THE FERGUSON BEQUEST FUND, 94 Bath Street, Glasgow, before 1st September, 1901, and due intimation will be sent to those enrolled as to the place and hours of Examination.

The following Students of the University of Glasgow have obtained Ferguson Scholarships:—

1868, James Smith, Mathematical; 1869, Archibald B. Cameron, Philosophical; 1870, John Cross, Classical; 1870, James Orr, Philosophical; 1872, Wm. W. Waddell, Classical; 1873, Thomas H. Miller, Mathematical; 1874, William Patrick, Philosophical; 1875, William Y. King, Classical; 1878, John M'A. Dodds, Mathematical; 1878, Thomas B. Kilpatrick, Philosophical; 1882, Robert F. Muirhead, Mathematical; 1883, James A. M'Callum, Philosophical; 1886, James Buchanan, Mathematical; 1886, Andrew F. Smith, Philosophical; 1888, Ernest F. Scott, Classical; 1889, Evan Kerr Evans, M.A., Philosophical; 1890, Abraham Levine, M.A., Mathematical; 1891, James Horn, M.A., Mathematical; 1893, Horatio S. Carslaw, M.A., Mathematical; 1897, William Boyd, M.A., Philosophical; 1898, George D. Valentine, M.A., Mathematical; 1899, Robert D. Bell, M.A., Classical; 1900, David K. Picken, M.A., Mathematical.

*Present Holders of the Scholarships.*—Robert D. Bell, M.A., of Glasgow University, Classics, 1899; Alexander Brown, M.A., of Edinburgh University, Mathematics, 1899; George C. Rankin, M.A., of Edinburgh University, Mental Philosophy, 1899; James M. Watson, M.A., of St. Andrews University, Classics, 1900; David K. Picken, M.A., of Glasgow University, Mathematics, 1900; Thomas M. Watt, M.A., of Aberdeen University, Mental Philosophy, 1900.

FOULIS MEMORIAL SCHOLARSHIP.—This Scholarship was founded in 1882 in memory of the late David Foulis, M.D., Glasgow, who had distinguished himself in Pathology and Surgery, and died at the age of 35 years. It is to be awarded as often as the accumulated income from the invested funds amounts to £50. The next vacancy will take place in session 1901-2. It is tenable by a graduate or licentiate whose professional education has, to the extent of not less than two years, been received at the University or one of the extra-mural schools of Glasgow; and who shall, in the opinion of the trustees, have manifested a capacity for original work in the department of Pathology. The purpose of the Scholarship is to assist in the prosecution of such work in one of the Medical Schools in or furth of Scotland, approved of by the trustees; and the trustees have power to determine whether it should be awarded by competition or otherwise.

The trustees are the Professor of Practice of Medicine in the University, the President and Visitor of the Faculty of Physicians and Surgeons of Glasgow, and the Pathologists of the Western and Royal Infirmaries. Further particulars may be obtained from Messrs. J. M. Taylor, Foulis & Co., 180 St. Vincent Street.

*Scholars*—Peter Paterson, M.B., M.R.C.S.; Walter K. Hunter, B.Sc., M.D.

William Houldsworth Research Studentship.—In March, 1898, the late William Houldsworth, merchant in Glasgow, in recognition of the distinguished services of his friend, Lord Kelvin, to the cause of scientific research, made over to the University the sum of £5600 invested in Great Eastern Railway Four per cent. Debenture Stock, to provide a Research Studentship in connection with the Faculty of Science. Candidates must be students of at least two years' standing in the University of Glasgow. The studentship is tenable for two years, and the holder must prosecute his work with diligence and regularity so as to receive from the Professor of Natural Philosophy a certificate of creditable success. A proportion, viz., four-fifths, of the annual income is payable without deduction to the Research Student for personal expenses, and the remaining fifth part, after meeting the expenses of administration, is applied in payment of laboratory expenses and materials in connection with the Research Student's work, and in payment of his matriculation fees and of the fees for such Science Classes, if any, at the University as he may attend with the approval of the Senate. The said one-fifth part of the income must be expended at the sight and to the satisfaction of the Professor of Natural Philosophy or upon orders granted by him, and the Research Student is required to furnish the Professor with a statement showing the sums so expended in each session, and also during his tenure of the Studentship. Any surplus remaining over shall be added to the principal of the fund. In the event of the Studentship falling vacant otherwise than by lapse of time, the Senate may immediately make another appointment for a period not exceeding two years, and in the event of the Senate considering it not advisable at any time to make an appointment on the occurrence either of a casual vacancy or of a vacancy in regular course, the same may be deferred, and the income thus left unused shall be added to the principal of the fund.

When a vacancy occurs, the applications of candidates must set forth the particulars required by Ordinance No. 61, Section III. See page 141.

*Research Student.*—James Slater Dunlop, M.A., B.Sc., 1900.

Lloyd's Register Scholarship.—In 1889 the general Committee of Lloyd's Register of British and Foreign Shipping intimated their intention of establishing a Scholarship of the yearly value of £50, tenable for three years by students of Naval Architecture in this University. In 1893 two additional Scholarships, each of the same value and tenure as the first, were announced. They are open to competition to candidates whose age does not exceed 23 years. Each candidate must produce satisfactory evidence that £50 a year would enable him to pursue his studies, and that he would be unable to do so unless this aid were afforded. The subjects of examination are the following:—Euclid, Books I. II. III. IV. VI. and XI.; Algebra, including Quadratic Equations, the three Progressions, and Binomial Theorem; Plane Trigonometry, with use of Logarithms; Elements of Statics, Dynamics, and Hydrostatics; Practical Shipbuilding; Mechanical Problems. A preference will be given to a candidate who possesses a thorough grammatical knowledge of English and of either French or German, although he may be somewhat deficient in the other subjects prescribed. One Scholarship will be open to competition in October, 1901. Names of Candidates to be sent to the Assistant Clerk (Matriculation Office) on or before 18th September, 1901.

*Scholars*.—[1]James M'Nab (1898), 1900; William M. Gray, 1899; James B. Dickie, 1900.

Luke Fellowship.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3,000 sterling, "to perpetuate the memory of his nephew George Rankin Luke" (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), "in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial." Professor Nichol exercised the discretionary power thus conferred on him by directing that the sum bequeathed should be applied to the founding of a Luke Fellowship. The following are the regulations:—

1. There shall be a single Luke Fellowship of about £95 per annum, tenable for three years, subject to the approval of the Senate at the end of the first and second years.

2. The Luke Fellowship shall be awarded on examination on English Literature, and on prescribed periods in History.

3. The Luke Fellowship shall be open to competition in October, 1868, and thereafter triennially.

4. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing; provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have

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[1] Vacant through lapse of time.

graduated at the ordinary graduation in the April immediately preceding.

5. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing Fellowship.

6. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

Ordinance No. 100 of the Universities Commission (1889) prescribes that the provisions of Ordinance No. 57 shall apply to the Luke Fellowship, but provides that it shall not be a condition of tenure of the Fellowship that the holder shall give assistance in teaching the class of English Literature.

The next competition for the Luke Fellowship will take place in October, 1901. The subjects of examination will be:—(1) The History of English Literature from 1350 to 1674; (2) the Works of Shakespeare; (3) the Outlines of British History to 1832.

*Fellow*—[1] John Edgar, M.A., 1898.

MACKAY SMITH SCHOLARSHIPS.—One in Natural Philosophy, the other in Chemistry, each of the annual value of £48, and tenable for two years in the Universities of Edinburgh and Glasgow alternately. During sessions 1882-83 and 1883-84 they were held in the University of Edinburgh, and during sessions 1884-85 and 1885-86 in the University of Glasgow. The next examination will be held in this University at the close of session 1904-5. Candidates must have already attended, or must be then attending the class of Natural Philosophy or Chemistry respectively. The Scholarship in Chemistry will be awarded on an examination held at the same time and of the same scope as the Final Science Examination in that subject for the Degree of B.Sc. in Pure Science, and the Scholarship in Natural Philosophy on an examination held at the same time and of the same scope as the examination in that subject for the degree of M.A. with Honours.

*Scholars*—Alfred Walter Stewart, 1901 (Chemistry); Robert A. Houstoun, 1901 (Natural Philosophy).

MACKINNON SCHOLARSHIP.—By the will of the late Sir William Alexander Mackinnon, K.C.B., LL.D., Surgeon-General of Her Majesty's Army and Director-General of the Army Medical Staff, a sum of £2000, less legacy duty, was bequeathed to this University for the foundation of a Scholarship. The Scholarship is to be

[1] Vacant through lapse of time.

awarded to the person who shall in each year show the greatest proficiency in a competitive examination in (1) Geology, (2) Natural History (with Comparative Anatomy), and (3) Modern Foreign Languages, the examination in each subject to be held every third year. The subjects are to be taken in rotation, commencing in such order as the University authorities shall determine. In the event of the Scholarship not being awarded in any year, the amount of the Scholarship with any accumulations shall be added to the amount to form the Scholarship in the same subject on the recurrence of the examination therein.

The following are the regulations :

1. The rotation of subjects shall commence with Modern Foreign Languages at the Autumn Degree Examination, 1900, Natural History (with Comparative Anatomy) in Autumn, 1901, and Geology in Autumn, 1902, and so on thereafter.

2. The examination in Modern Foreign Languages shall be the same, and shall be held at the same time as the examination for Degrees in Arts with Honours in Modern Languages.

3. The examinations in Natural History (with Comparative Anatomy) and in Geology shall be the same, and held at the same time as the Final Science Examination in these subjects for the Degree of B.Sc.

4. The holder of the Scholarship in one year shall be eligible for reappointment the next year, provided he is found qualified on examination in the subject for that year ; provided also that no candidate shall hold the Scholarship more than once in any subject.

5. The order of merit shall be fixed by the examiners at each examination, but no appointment in the Science subjects shall be made unless the candidate highest on the list shall have obtained at least 65 per cent. of the attainable marks.

6. Should the Mackinnon Scholarship in Geology fall vacant at the same time as the Baxter Demonstratorship, the two appointments may be held concurrently.

Subject to these regulations, an appointment falls to be made after the examinations in September-October, 1901, to the Scholarship in Natural History (with Comparative Anatomy).

*Scholar.*—[1] Margaret G. Fulton, M.A., 1900 (Modern Languages).

METCALFE FELLOWSHIP.—Founded by the late Miss Sarah Metcalfe, Glasgow. (See under Metcalfe Bursaries, p. 291.)

The following are the regulations of the Metcalfe Fellowship :—

1. There shall be a Fellowship on the Metcalfe Foundation of the annual value of £100, tenable for three years, to be competed for in October, 1872, and thereafter triennially (1902).

2. Candidates must be Masters of Arts with Honours in the Group of Mathematics and Natural Philosophy, of not more than

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[1] Vacant through lapse of time.

three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall for all purposes be held to have graduated at the ordinary graduation in the April immediately preceding.

3. The examination shall be the examination for the Degree of Master of Arts with Honours in the Group of Mathematics and Natural Philosophy.

4. The Fellowship shall be held subject to the condition of pursuing a course of study in such of the following subjects—viz., Higher Mathematics, Astronomy, Civil Engineering, and Chemistry—as the Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

*Fellow*—David K. Picken, 1899.

REID STEWART FELLOWSHIP.—Mr. James Reid Stewart, Ironmaster, Glasgow, who died on 8th August, 1896, directed his Trustees to pay a legacy of £2000, under deduction of legacy duty, to the Senate, the free income of which is to be applied in and towards a Fellowship to be called the Reid Stewart Fellowship.

The following are the regulations:—

1. Candidates must be Masters of Arts who have taken the Degree of M.A. with Honours in either the Group of History or the Group of Economic Science, or be students presenting themselves for the final examination for the M.A. Degree with Honours in either of these Groups.

But no student shall be admitted to the examination after the expiry of more than two winter sessions from the time of his completing the course necessary for the Degree of M.A. with Honours in either of these Groups.

2. The papers set in the examination shall be the same as the papers set for Honours in these Groups at the October examinations for Degrees in Arts, and the Examiners shall be the Examiners for the Degree of M.A. with Honours in these Groups. The Fellowship will be awarded for excellence in one Group, but not in both.

3. The Fellowship shall be tenable for three years, subject to the condition that the holder give his time and attention to the prosecution of his studies with a view to one of the learned professions

or to such professional or business avocation as may be approved of by the Senate.

4. In the event of a vacancy occurring otherwise than by lapse of time, it shall be in the power of the Senate to appoint, after competition under the same conditions as above, either for the unexpired period of the vacated Fellowship or for the full period of three years. If the Fellowship is offered for a period of less than three years, the conditions of competition and tenure shall be the same as those stated above, provided that no student shall be excluded from the competition who was eligible when the Fellowship was last offered for three years.

5. In the event of the Examiners reporting in any year that no candidate has done sufficiently well to deserve the Fellowship, no appointment shall be made on that occasion, but the Fellowship shall be offered for competition in the following year under the same conditions as in the case of a vacancy occurring otherwise than by lapse of time.

6. It shall not be competent for the holder of the Reid Stewart Fellowship to hold any other Bursary, Scholarship, or Fellowship in this University, without the special leave of the Senate. The next competition will take place in October, 1902.

*Fellow*—John Lochhead, M.A., 1899.

Sandford Scholarship.—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value about £20 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April (1902), and is open to all matriculated students (not Masters of Arts) who have attended the Public Greek Classes for not less than two sessions.

The subjects of examination are selected from the following authors:—Homer, 12 books; Herodotus, 4 books; Sophocles, 3 plays; Thucydides, 4 books; Æschylus, 3 plays; Demosthenes, one or more orations; Aristophanes, 3 plays; Xenophon's *Memorabilia;* Pindar; Plato, one or more dialogues.

Candidates are examined on not more than four of the above-mentioned authors (of which Homer is always one)—two in prose and two in verse; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

The subjects for April, 1902, will be:—Homer, *Odyssey*, xiii.—xiv.;

Aristophanes, *Equites*, *Nubes*, *Vespae*; Demosthenes, *Olynthiacs*; Herodotus, vi.—ix.; Unseen Translation; Prose Composition, and Verse if any candidate offers it.

*Scholar*—James F. Dyer, 1900.

SCOTT SCHOLARSHIP—(See under head "Scott Bursaries," p. 301.)—This Scholarship, in value £80 per annum, is open for competition to Masters of Arts in the University of Glasgow of not more than three years' standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. The examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the Senatus Academicus may determine. The Scott Scholarship is not to be held along with any other Scholarship, Fellowship, or Bursary of the University of Glasgow. "The subjects of examination for the said Scholarship shall be, with the addition after-mentioned, Classics, or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. degree with Honours in the given department or departments for the year, and in addition to the examination above mentioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass." The Scholarship will be open to competition in October, 1902. The examination will be in Classics and in English Literature (not Language) from Chaucer downwards.

*Scholar*—Mabel Atkinson, M.A., 1900.

SHAW PHILOSOPHICAL FELLOWSHIP.—This Fellowship was founded by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton, and County of Ayr, in 1764, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of the Graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £4,100 mortified to the Senatus Academicus of the University of Edinburgh under the following conditions, namely:—

1. The said Fellowship shall bear the name of "THE SHAW PHILOSOPHICAL FELLOWSHIP," in memory of the said Sir James Shaw, Baronet.

2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said Senatus Academicus, and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy.

3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy.

4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities—that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years' standing at the time of the competition, and of all students of the said Scottish Universities who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.

5. The Fellowship shall be tenable for five years only, but the said Senatus Academicus of the University of Edinburgh shall have power, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the number of foundations of a similar kind in the University of Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship shall, except in the case below provided for, be conducted by two Examiners, to be appointed in the manner following—to wit, one of the Examiners shall be appointed by the Senatus Academicus of the University of Edinburgh, either from among the members of the said Senatus or others, as they may think proper, and the other Examiner shall be appointed by the Senatus Academicus of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the Senatus Academicus of the University of Edinburgh, who shall, as Patrons of the said Fellow-

ship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand One Hundred Pounds, and of any addition of the said sum which may hereafter be made thereto, as after-mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary, in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the Senatus Academicus of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded ; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he is required to deliver them ; but the said Senatus, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

*Present Fellow*—J. B. Baillie, M.A. (of Edinburgh University), 1899.

Snell Exhibitions.—In the year 1677, Mr. John Snell of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to trustees a considerable estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitioners should be limited to fourteen, it being lawful to elect three in each year, unless the number on the Foundation should thereby be increased beyond fourteen, in which case not more than two were to be elected, the Exhibition being tenable for five years ; but by an agreement of date 2nd April, 1878, under provisions of the same scheme, the following regulations were sanctioned :—

1. The stipend of each Exhibitioner admitted to the foundation after the 31st day of December, 1878, shall be £132.

2. Until the 31st day of December, 1880, the greatest number of Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibitioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect in each year shall be three, unless the number on the foundation for the time being would be thereby increased beyond the greatest number for the time being permitted by this agreement, in which case not more than two shall be elected.

By a subsequent agreement of date 21st January, 1886, the following modifications were made:—

1. The value of the Snell Exhibitions shall be reduced to £80 a year.

2. They shall be held, as heretofore, for five years, but the whole sum of £400 will be paid to each Exhibitioner during the first three years of his tenure in equal annual sums, but a moiety of the last annual payment shall be kept back, if the authorities of Balliol College think fit, until the Exhibitioner shall have taken his Degree.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided"[1] as Undergraduate Students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland." "No candidate shall be admitted to examination who shall be a member of the University of Oxford of more than one year's standing from the day of his matriculation inclusive; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year; but a candidate otherwise qualified shall not be excluded from examination on the ground that he is a graduate of any Scotch University."

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than 2nd December, 1901. The next examination will be held in April, 1902, on the same days and at the same hours as the Examinations for the Degree of M.A. with Honours, the English paper being taken on Saturday, 5th April, at 10 A.M.

The subjects of examination are as follows:

## IN LATIN, GREEK, LOGIC, MORAL PHILOSOPHY, AND HISTORY.

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[1] By Resolution of date December 13th, [illegible], the Senate determined that "Residence" shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete winter session on not less than two of the classes in the curriculum for the Degree of Arts.

—The subjects of examination for the Degree of M.A. with Honours.

IN NATURAL PHILOSOPHY AND MATHEMATICS.—The subjects of examination for the Ordinary Degree of M.A., and higher subjects which any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the four groups, viz.: Classics, Mental Philosophy, Mathematics and Natural Philosophy, and History; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will be required to write an English Essay on a subject prescribed at the time. Candidates who do not offer Classics will be required to show such a knowledge of Latin and Greek as to prove their ability to pass Responsions at Oxford.

*Exhibitioners*—Peter W. Monie, 1897; Samuel F. H. Mackay, 1898; Archibald Main, 1899; George H. Stevenson, 1900; Peter Hately Waddell, 1901.

THOMSON EXPERIMENTAL SCHOLARSHIPS.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson (now Lord Kelvin), LL.D., D.C.L., Professor of Natural Philosophy in the University, by letter to the Principal of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continual prosecution of Experimental Investigations in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholarship, or Fellowship.

*Scholars for* 1900-1901—Alexander Wood, John A. Craw, Robert A. Houstoun.

James Watt Scholarship.—In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study, to be taken in rotation:—1. Any branch of Mechanics or its dependent Arts. 2. Statics, and the Machines and Arts dependent. 3. Pneumatics, Statical or Chemical, Machines and Arts. 4. Hydraulics, Hydrostatics, their Machines and Arts. 5. Chemistry, its Arts and Apparatus. All actual students who had completed, or who, at the end of the session in which the Prize fell to be awarded, should have completed a regular course of study in Languages and Philosophy, might be competitors. By Ordinance No. 93 of the Universities Commissioners (1889), issued on 16th February, 1895, and approved by Her Majesty in Council on 13th August, 1895, it was provided that the Watt Prize should be discontinued, that the funds should be allowed to accumulate for four years from the date of the Ordinance, and that thereafter a James Watt Scholarship in Engineering should be established.

The Scholarship is awarded by the Senate, on a special report by the Faculty of Science, to a Bachelor of Science of distinction of not more than two years' standing. It is tenable for two years, and the James Watt Scholar is required to pursue during his tenure special higher studies in the Engineering Laboratory, under the direction and to the satisfaction of the Professor.

*Scholar*—Alfred J. Wilson, 1901.

## 3.—*PRIZES.*

Besides the class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public-spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1900-1901 will be found in the Degree and Prize List.

### INDEX.

| FOUNDATION. | NATURE OF PRIZE. | AWARDED FOR |
|---|---|---|
| Arnott, - - - - - | £25 and £15, | Examinations. |
| Brunton Memorial, - | £10, | Do. |
| Buchanan (3), - - - | Books, | Do. |
| Cleland, - - - - - | Gold Medal, | Do. |
| Cleland & Rae Wilson, | Four Gold Medals, | Do. |
| Cobden, - - - | £20 and Silver Medal (triennial), | Essay. |
| Coulter, - - - - - | Two at £5 each, | Essays. |
| Cowan, - - - - - | Three Gold Medals, | Examinations. |
| Cunninghame, - - - | Gold Medal, | Do. |
| Dickson Prize, - - - | Books, | Do. |
| Dobbie-Smith, - - - | Gold Medal (biennial), | Essay. |
| Dowanhill, - - - - | £20 and £10, | Elocution. |
| Ewing, - - - - - | Gold Medal (biennial), | Essay. |
| Findlater, - - - - - | £38, | Examination. |
| Gartmore, - - - - | Gold Medal (biennial), | Essay. |
| Gladstone Historical - | £21 (biennial), | Examination. |
| Gladstone Memorial, - | £5 in Books, | Do. |
| Harvey, George, - - | £14, | Do. |
| Henderson, - - - - | £21, | Essay. |
| Jamieson, - - - - | £10, | Examination. |
| Jeffrey, - - - - - | Gold Medal, | Do. |
| Kirk Memorial, - - - | £14, | Do. |
| Logan, Thos., Memorial, | Gold Medal and £12, | Do. |
| Luke Historical, - - | £9 (biennial), | Do. |
| Macfarlan and Cook, - | £21, | Do. |
| Macleod, - - - - - | Gold Medal, | Do. |
| Muirhead, - - - - | Books, | Do. |
| Muirhead, G. Roger, - | £2 5s., | Do. |
| Nichol Memorial, - - | Books, | Do. |
| Reid, John, - - - - | £25, | Original Research. |
| Ross, Robert (2), - - | Med., books, or money, | Examinations. |
| Scott-Macfarlan, - - | Gold Medal, | Examination. |
| University, - - - - | Silver Medal, | Essay. |
| Walker (4), - - - - | Books, etc., | Examinations. |

ARNOTT PRIZES.—Founded in 1869, by Dr. Neil Arnott of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the Medical students of the University.

By resolution of the Senate of date April 10, 1873, the following regulations were adopted :—

1. That there shall be two separate examinations—one in General

Physics, for students of the first and second years of their Medical studies; the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrine of General Physics to Physiological Science.

2. The knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant Clerk (Matriculation Office), and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 5th October, 1901, in the Examination Hall, at 2 P.M. Intending candidates to give in their names to the Assistant Clerk (Matriculation Office) on or before 18th September.

BRUNTON MEMORIAL PRIZE. Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died on 16th November, 1876, of fever, contracted in the diligent discharge of his professional duties in the Royal Infirmary of Paisley. The Committee of Subscribers paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

BUCHANAN PRIZES.—A Bursary was founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University during the long period of forty years. The fund consists of a sum of £314 raised by subscription. The Buchanan Bursaries having been founded under the Will of Professor Buchanan, the proceeds of this fund are now, with the sanction of the subscribers, applied to the purchase of books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

CLELAND AND RAE WILSON GOLD MEDALS.—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on a student of Divinity, and a student of Natural Philosophy, as a prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

Dr. William Rae Wilson of Kelvinbank, who died 2nd June, 1849, founded a Gold Medal to be bestowed upon the Divinity student who should produce the best Essay on the Life of Christ.

These foundations are now regulated by Ordinance No. 97 of the Universities Commission (1889). The Cleland Gold Medal, not exceeding ten guineas in value, is awarded to the most distinguished student in the class of Natural Philosophy in each year. The remainder of the free income of the Cleland Foundation is added to the total free income of the Rae Wilson Foundation, to provide four Gold Medals of equal value. These medals are awarded in each year as follows:—One to the most distinguished student in each of the classes of (1) Divinity, (2) Ecclesiastical History, (3) Hebrew and Semitic Languages, and (4) Divinity and Biblical Criticism. In the event of there being no student of sufficient distinction in any of these classes, the proportion of the income for that year may be applied towards the promotion of theological study in such manner as the Senate may decide.

COBDEN PRIZE.—This prize of the value of £20, together with a silver medal, will be offered by the Cobden Club, London, every third year for an essay on some subject connected with political economy. The subject is to be fixed by the two adjudicators, one of whom is appointed by the University and the other by the donors. Members of the University of not more than six years' standing may be competitors. The prize will be awarded in 1902 and thereafter triennially.

COULTER PRIZES.—In 1787 Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, "the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing." The interest of this sum is now divided into Two Prizes of £5 each; the one to be given in alternate years for a Sermon or Theological Essay, and for an Essay on Mental Philosophy and English Literature, the other to be given annually for a translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all matriculated students of the University.

COWAN GOLD MEDALS.—In 1826 Dr. Cowan of Sunderland presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of about £10 each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1830) the same gentleman presented the University with an additional sum of £100, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Blackstone Medals will be held early in November, 1901. Competitors to be eligible must be public students in some curriculum class in the Faculty of Arts.

For the Greek Medal—1. A candidate must have received a Certificate in the Greek Class for session 1900-1901.

2. Every candidate will be required to answer a Preliminary Paper, consisting of unprepared passages for translation.

3. Two or more candidates, selected by this paper, will on a subsequent day be examined orally in the books which they offer.

4. Each selected candidate must offer for the Oral Examination (i.) one Verse Subject, (ii.) one Prose Subject. (i.) The Verse Subject must be *either* five books of Homer, *or* two Greek plays (tragedies or comedies). (ii.) The Prose Subject may be any *one* of the following:—(*a*) Herodotus—two books; (*b*) Thucydides—two books; (*c*) Plato—two dialogues, or two books of the *Republic*; (*d*) Aristotle—two books of the *Ethics*, of the *Politics*, or of the *Rhetoric*.

5. Any member of the Greek Class for session 1901-2 is at liberty to go in for the Preliminary Paper, even though he is not a candidate for the Cowan Medal; and if he acquits himself with distinction in that paper, his name will be mentioned when the award of the Medal is announced.

For the Latin Medal competitors must in the session preceding the competition have received a public ticket of the Latin Class.

Notice is hereby given, that at the examination for Dr. Cowan's Medals in November, 1892, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek, has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, having been admitted to the Senior Class in consequence of having passed the preliminary examination in Latin, has attended for more than one session in any Scottish University.

CUNNINGHAME GOLD MEDAL.—In 1886 Mr. Andrew Cunninghame, Town Clerk Depute of Glasgow, bequeathed to the University, *inter alia*, £350, free of legacy duty, with directions that the annual revenue thereof should be applied in purchasing a Gold Medal as a prize in the class of Mathematics.

DICKSON PRIZE.—In 1895, when the late Professor Dickson retired from the Chair of Divinity, his former students presented him with a testimonial consisting of silver plate and a cheque for £120. This sum was handed over by Dr. Dickson to the University Court, that the free annual income might be applied in the form of a prize of serviceable books to accompany the gold medal given to the most distinguished student of the year in the class of Divinity. In accordance with the wish of the subscribers the prize has been called the Dickson Prize.

DOBBIE-SMITH GOLD MEDAL.—In 1881 Mr. Thomas Smith, L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University, in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value, to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the session in which the Medal is to be awarded; the subject of competition—which shall always be a Botanical subject—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The next competition to be on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and each essay to be accompanied by an illustrative series of macroscopic and microscopic specimens. Essays to be given in to the Principal on or before 30th September, 1901.

DOWANHILL PRIZES.—Two prizes, one of £20, and the other of £10, for "Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures," founded in 1865 by Mr. John Buchanan, merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased brother, Mr. Thomas Buchanan, also merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to Students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.[1]

The above foundation is in memory of the late Mr. James Buchanan of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan of Stanley, Perthshire, the Father, Mother, and elder Brother of the Founder.

EWING GOLD MEDAL.—In 1828 James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

FINDLATER (DIVINITY) SCHOLARSHIP OR PRIZE.—This Scholarship, consisting of the free annual proceeds of the sum of £1,000 gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The following regulations have been adopted by the Senate:—

1. The Findlater Scholarship shall be awarded annually by competition.
2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.
3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.

The next competition will take place in October, 1901, and April, 1902. Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 16th October, 1901.

GARTMORE GOLD MEDAL.—In 1788 Mr. Robert Graham of Gartmore presented the University with £100 for the institution of a Prize for the best essay on any subject intimately connected with the nature, foundation, advantages, and support of political liberty. This Prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The founder directed that the surpluses should be accumulated till a capital was formed sufficient to found a Bursary.—See Gartmore Bursary, p. 266.

GLADSTONE HISTORICAL PRIZE.—Founded in 1880 by the Gladstone Club, in commemoration of the election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations:—

1. The prize shall be given for the best examination in English History.

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[1] See note under Faculty of Theology, supra.

2. The examination shall be held biennially.
3. The value of the Prize shall be Twenty Guineas.
4. The competition shall be open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation. The next competition will take place in January, 1902. Names of competitors to be given in to the Assistant Clerk (Matriculation Office) not later than 2nd December, 1901.

GLADSTONE MEMORIAL PRIZE.—In November, 1899, the Committee of the Gladstone Memorial Fund resolved to devote the revenue accruing from the surplus of the Fund to the establishment of Gladstone Memorial Prizes to be given in Books at the Universities of Oxford, Cambridge, and London, at the Scottish Universities, and the University Colleges in Great Britain, for special proficiency in History, Political Science, and Economics. In this University the prize, in value Five Pounds, will be awarded annually. Either graduates of this University who have taken the degree of M.A. with Honours, or students presenting themselves for examination for the Degree of M.A. with Honours in Economic Science, may be candidates; but no student shall be eligible after the expiration of more than six winter sessions from the time of his or her first entering a class qualifying for the Degree of M.A., and no student who has once obtained the prize may compete a second time. The subjects of examination shall be the same as those prescribed for Honours in Economic Science, and the examination shall be held at the same time as the autumn examination for Degrees with Honours in Economic Science. The Prize is awarded by the Senate on the report of the Examiners for Degrees, and it is competent for the Senate to award it to the holder of a Fellowship, or Scholarship, or Bursary. The Prize will be open to competition in October, 1901.

GEORGE HARVEY PRIZE.—Founded in 1874, by the liberality of a donor who has withheld his name, in memory of the late Mr. George Harvey of No. 9 Park Quadrant, Glasgow. Present annual value £14, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10 in the same department.

HENDERSON PRIZE.—In 1850 Mr. John Henderson of Park, merchant in Glasgow, instituted an annual prize of the value of £21 sterling, to be called the "Henderson Prize," for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath. The Universities Commission (1889), by Ordinance No. 101, altered the conditions and directions affecting this prize. It is now to be awarded for the best essay on a subject to be fixed by the Faculty of Divinity, provided always that in every third year at least, the subject shall relate to the

Divine authority and practical value and influence of the Sabbath. The competition is to be open to Masters of Arts of not more than five years' standing, as well as to matriculated students of the University.

JAMIESON PRIZE.—In 1854 a subscription list was opened for the foundation of a prize or scholarship in Divinity, but the commercial difficulties of the following years prevented the purpose of the promoters being carried out at the time. In 1881 the sum subscribed, amounting, with accumulated interest, to £319 [illegible], was handed over to the University, and the Senate resolved to connect it with the name of the Convener of the Committee of subscribers, the Rev. Robert Jamieson, D.D., formerly minister of St. Paul's Church, Glasgow.

The following regulations have been adopted by the Senate:—

1. The Jamieson Prize shall be awarded annually by competition.

2. The subjects of examination shall be the same as those prescribed for the Degree of B.D., and the examinations shall be held at the same times as the examinations for the Degree of B.D.

3. The competition shall be open to all students of Divinity in this University who shall complete the ordinary course at the close of the session in which the examinations are held.

4. The Prize shall not be awarded to any one who has gained a Scholarship or Fellowship in Divinity.

The next competition will take place in October, 1901, and April, 1902. Names of candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 16th October, 1901.

JEFFREY GOLD MEDAL.—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey), on his re-election as Lord Rector of this University, in 1821, gave a prize of a Gold Medal and continued to do so annually.

In 1849 Lord Jeffrey presented the University with the sum of £120 for a Gold Medal to be awarded each session to the most distinguished student of the Greek Class.

KIRK MEMORIAL PRIZE.—A sum of £462 was collected in 1893 by various friends of the late Alexander Carnegie Kirk, LL.D., formerly President of the Institution of Engineers and Shipbuilders in Scotland, for the purpose of founding a prize in his name, in connection with the Naval Architecture Class in the University. The free annual income of the foundation is awarded annually as a prize. The competition is open to students who have, in the session of competition, attended the Senior Class of Naval Architecture, and who are completing the Final Science Examination under Ordinance No. 23, Glasgow No. 2, embracing (*a*) Naval Architecture with Marine Engineering, and (*b*) Practical Work in Ship and Marine Engineering Drawing, the award being determined by the proficiency shown in (*a*) and (*b*). Should two or more candidates be reported equal, the Senate may divide the Prize, or prescribe a further examination. The subscribers have given the Senate power to convert this Prize into a Bursary, should it be found expedient or advantageous to do so at any future time.

LIVINGSTONE GOLD MEDAL.—In 1897 Mr. Allan Wyon, Chief Engraver of Her Majesty's Seals, London, offered to present annually as a memorial of David Livingstone, LL.D., the missionary explorer in Africa, a Gold Medal, between £8 and £9 in value, to the matriculated student of either sex who should write the best essay on some subject connected with Christian Missions to the Heathen.

THOMAS LOGAN MEMORIAL MEDAL AND PRIZE.—Mr. David Logan, fruiterer, Glasgow, who died on 19th May, 1886, directed his trustees to pay to the Senate the sum of £500, free of legacy duty, to found a Gold Medal and Prize in memory of his brother, Thomas Logan. The Medal is of the value of £5, and the Prize consists of the balance of the annual proceeds given in money. They are awarded annually in April to the graduate in Arts of the preceding year who obtained the highest marks in the Degree Examinations.

LUKE HISTORICAL PRIZE.—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a prize in his name, in connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, resolved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient History and Literature. The examination to be conducted either altogether in writing, or by combination of writing and *vivâ voce* questions; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who acquits himself best in an examination in Ancient Greek and Roman History.

The next competition will be held in January, 1903. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during session 1901-2 any Greek or Latin Class.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st December, 1902.

MACFARLAN AND COOK TESTIMONIAL PRIZE.—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D. of this University, and Professor George Cook, D.D. of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological Student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

Macleod Medal.—In 1895 Lady Macleod instituted this Gold Medal in memory of her husband, Sir George Husband Baird Macleod, M.D., LL.D., Regius Professor of Surgery in this University from 1869 to 1892. The competition is open only to those who have attended the classes of Systematic and Operative Surgery taught by the Regius Professor of Surgery in the University, and women students are not eligible. The Medal is awarded yearly to the student who most distinguishes himself in the work (written, oral, and practical) of these classes.

Muirhead Prizes.—In 1776 Messrs John Muirhead of Teggetsheugh, and Peter Muirhead, minister of Dysart, brothers of the deceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in purchase of books to be awarded as prizes to those students attending the Humanity Class who shall be thought most deserving.

George Roger Muirhead Prize.—In 1896 a sum of £100 was bequeathed to the University by Mrs Elizabeth Lockhart Roger or Muirhead, Glasgow, to found a prize in the Chemistry class in memory of her son, George Roger Muirhead, who studied Chemistry in this University. The free annual income is paid annually to the medallist of the Chemistry class for the year.

Nichol Memorial Prize.—In 1895 Mrs Jack presented the University with the sum of £150 for the purpose of founding a prize, to be called the "Nichol Memorial Prize," in memory of her brother, John Nichol, LL.D., Professor of English Language and Literature in this University from 1862 till 1889, who died in London on 11th October, 1894, and especially in commemoration of the active interest which he took in the teaching of English Literature to women in Glasgow and elsewhere. The free income of the fund is applied annually to providing a first prize for the English Literature Class in Queen Margaret College.

Rae Wilson Gold Medal.—(See Cleland and Rae Wilson, p. 336.)

John Reid Prize.—A Prize of the value of £25 was founded in 1882 by Miss Mary Reid, Renfrew Street, Glasgow, in memory of her brother, the late Mr. John Reid, surgeon, 150 Renfrew Street, Glasgow. The prize will be awarded for the best original research conducted in one of the Hospitals or Scientific Laboratories in

Glasgow, bearing on any department of Medical Science. The competition is open to registered students of medicine of not less than two years' standing; and to qualified medical men of not more than two years' standing, who (1) are still attached as *bonâ fide* students to one of the Glasgow Medical Schools, who (2) are not engaged in practice, and who (3) undertake to give up the prize if they enter on practice while holding it. All candidates are required to produce evidence of having attended a regular course of instruction, in one of the medical schools of Glasgow, on *four* of the following subjects:—Medicine, Clinical Medicine, Surgery, Clinical Surgery, Materia Medica, Physiology, Pathology—such course of instruction having been received, in whole or in part, within three years of competing for the prize. The prize may be awarded for one, two, or three years, according to the value of the work done.

Further information may be obtained from Mr. John Hurll, jun., writer, 157 St. Vincent Street, Glasgow.

Robert Ross Prize.—The late Robert Ross, Esq., writer, Glasgow, by his Will, dated 1880, bequeathed to the Dean and Council of the Faculty of Procurators, Glasgow, the sum of £500, to be held by them in trust, "to the end that the free annual income thereof shall be applied as an annual prize in the form of a medal, of books, or of money, as the Dean and Council may determine, to a student in each of the Scots Law Class and the Conveyancing Class of the University of Glasgow in equal proportions, such prize to be awarded for eminence displayed, either in the general business of the class or in any other manner in which the said Dean and Council may prescribe."

Scott-Macfarlan Gold Medal.—Founded in 1870 by Miss Scott, daughter of the late Rev. Robert Allan Scott, Vicar of Cranwell, Lincolnshire, in fulfilment of her father's intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Balliol College, Oxford, in 1825, dedicated to that purpose the sum of £100 for a Gold Medal, to be called the "Scott-Macfarlan Prize for Greek," in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on the last day of the session in each year to the best scholar in Greek of the session; the medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek Class, Miss Scott consented to give the "Scott-Macfarlan" Medal to the best student in the middle class.

University Medal.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

Walker Prizes. Four Prizes (consisting of Books or Instruments) to be competed for each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., F.R.SS.L. and E.

The competition is open to all persons who shall have duly entered themselves as attending the class of Civil Engineering and Mechanics during the current session.

The competitors are examined orally and in writing; and two of the prizes are awarded on the results of the written examinations, the other two by votes of the class.

## *LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION 1901-2.*

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## A.—FACULTY OF ARTS.

### 1.—BURSARIES.

The following is a summary of the principal provisions of Ordinance No. 57[1] of the Universities Commission (1889) relating to the Bursary competition:—

The subjects of the examination for open Bursaries in Arts of the first year shall be the subjects prescribed for the Arts Preliminary, of which subjects candidates may select not more than five. Candidates who select Latin, Greek, or Mathematics, must take the papers of the higher standard in those subjects. In determining the marks to be assigned to the several subjects of examination, English, Latin, Greek, and Mathematics shall each have assigned to them double the marks assigned to any other subject, and no candidate shall be credited with marks in any subject in which he has not obtained such proportion of the total number of marks assigned to that subject as the Senate may from time to time prescribe.

No Candidate shall, except as hereinafter provided, obtain an open Bursary in Arts who shall not have passed the Preliminary Examination in Arts; provided that it shall be in the power of the Senate, with the approval of the University Court, to admit to an open Bursary in Arts a Candidate who shall have passed in at least three subjects of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the second Preliminary Examination after the date of his admission as Bursar.

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[1] The full text of this ordinance is printed at pp. [illegible]

No student who has during a winter or summer session attended in any Scottish University any class qualifying in his case for graduation in Arts or Science, shall be eligible to compete for Bursaries of the first year in Arts or Science.

Candidates for Bursaries in Arts which are not awarded by open competition shall present themselves for the Preliminary Examination in Arts, and no Bursary shall, except as hereinafter provided, be awarded to any Candidate who shall not have passed the Preliminary Examination in Arts: provided that it shall be in the power of the Senate, with the approval of the University Court, to admit to a Bursary in Arts not awarded by open competition a Candidate who shall have passed in at least one subject of the Preliminary Examination, on the condition that he shall not retain the Bursary unless he shall have passed in all the subjects not later than the Second Preliminary Examination after the date of his admission as Bursar.

*N.B.*—For the Bursaries open to women students see pp. 243-246.

## FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

1. *Blackquarry School Bursary*, annual value £12, tenable for four years—open.

2. *Ebenezer Brown Bursary*, annual value £40, tenable for three years—open.

3. *Buchanan Bursary*, annual value £13, tenable for three years—open.

4. *Forfar Bursary*, annual value £36, tenable for four years—open.

5. *Foundation Bursary*, annual value £20, tenable for four years—open.

6. *General Council Bursary*, annual value £20, tenable for three years—open.

7. *Malcolm M'Ewen Bursary*, annual value £16, tenable for four years—open.

8. *Scott Bursary*, annual value £25, tenable for four years—open.

9 and 10. *Two Taylor Bursaries*, annual value £7 each, tenable for four years—open.

11, 12, 13, 14, 15, and 16. *Six John Clark* (*Mile-End*) *Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons of Protestant parents.

17. *Barbour Kilbarchan Bursary*, annual value about £20, tenable for three years, open only to candidates not exceeding 18 years of age from Kilbarchan Public School.

18 and 19. *Two Biggart Memorial Bursaries*, annual value £25 each, tenable for four years, for students preparing for the Ministry of the United Free Church.

20 and 21. *Two Brand Bursaries*, annual value £22 each, tenable for

four years, for students preparing for the Ministry of the United Free Church.

22*a*. *Brown Paton Bursary*, annual value about £16, tenable for three years. Preference to natives of Loudon or Galston, whom failing, to natives of any other part of Ayrshire.

22*b*. *Cowan Bursary*, value for each of first two years £30, for third year £20, for students who have attended Ayr Academy for at least two years before the date of examination. Apply to Mr. J. G. M'Skimming, 7 Wellington Square, Ayr, before the first day of September.

23. *Archibald Craig Bursary*, annual value £9, tenable for two years, for students who are natives of Eaglesham or Mearns, or who for two consecutive years have attended school in either of these parishes.

24. *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. (Tenable in any faculty.)

25. *Duncan's Bute Bursary*, annual value £32, tenable for four years, for natives of Bute.

26. *James Ewing Entrance Bursary*, annual value £20, tenable for four years, for sons of Glasgow merchants. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September.

27, 28, and 29. *Three Fullarton of Overton Bursaries*, annual value £22 each, tenable for two years, for students under 25 years of age, from the district of Cunninghame, in Ayrshire. Subjects for Examination—Latin, Elementary Mathematics, and English.

30. *Hamilton Educational Trust Bursary*, annual value £15, tenable for three years, open to pupils attending public or State-aided schools in the Burgh and Parish of Hamilton. Apply to Mr. Patrick Keith, Writer, Hamilton, before the first day of September.

31. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September.

32, 33, and 34. *Three Glasgow Highland Society's Bursaries*, annual value £20 each, tenable for four years, for students of Highland descent. Apply to Mr. R. Hope Robertson, 58 St. Vincent Street, before the first day of September.

35, 36, and 37. *Three Glasgow City Educational Endowments Bursaries*, annual value £25 each, tenable for four years, for students from public or State-aided schools in Glasgow. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

38, 39, 40, 41, and 42. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended for at least two years immediately preceding the competition, and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September.

43 and 44. *Two James Laing Bursaries*, annual value £25 each, tenable for four years, for students of either sex who have been educated for at least three years in a school or schools in Stirlingshire. Apply to Mr. William Jenkins, Writer, Denny, before the first day of September.

45. *Leighton Bursary*, annual value £18, tenable for three years. Apply to the Town Clerk, City Chambers, Glasgow, before the first day of September.

46. *Lusk Bursary*, annual value £30, tenable for three years, for students preparing for the ministry of any of the Presbyterian Churches of Scotland.

47, 48, 49, and 50. *Four Marshall Trust Bursaries*, annual value £30 each, tenable for five years, for students of either sex from public or State-aided schools in Lanarkshire or Stirlingshire. Apply to Mr. Wm. Mitchell, 134 Wellington Street, Glasgow, before the first day of September.

51. *Patrick Bursary*, annual value £32, tenable for four years, for students from Renfrewshire.

52. *Pollock Bursary*, annual value £40, tenable for three years. Preference to candidates educated in Paisley.

53. *William Whyte Bursary*, annual value £25, tenable for four years, open to students who have attended and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Messrs. Hill & Hoggan, 194 Ingram Street, on or before the first day of September. [Tenable also in Law or Medicine.]

54. *William Gardiner Bursary*, annual value £13 10s., tenable for two years. Preference, *cæteris paribus*, to sons of medical men, lawyers and teachers. Subjects for examination—French and German.

55. *James Thomson Philosophical Bursary*, annual value £9, tenable for one year. The subjects of examination are the same as the Mental Philosophy subjects for the Lorimer Bursary, No. 61.

56, 57, and 58. *Three James A. Paterson Bursaries*, annual value £35, £25, and £20 respectively, tenable for three years, for students preparing for the Ministry of the United Presbyterian Church. The subjects of examination are Greek and Hebrew, as detailed at page 296.

### FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 2, 4, 5, 6, 8, 9, 10, 20, 21, 25, 27, 28, 29, 43, 44, 46, 55, 56, 57, 58, in the preceding list.

59. *Park General Council*, annual value £20, tenable for two years—open.

60. *Lorimer Bursary*, annual value £25, tenable for three years. The examination will take place along with the Arts Preliminary Examination in Mathematics, but may embrace higher papers.

61. *Lorimer Bursary*, annual value £25, tenable for three years. Subjects of examination—1. *Logic*: (*a*) Descartes, *Meditations* (Veitch's translation); (*b*) Ferrier, *Lectures on Greek Philosophy*, the Pre-Socratic period. 2. *English Literature*: (*a*) Shakespeare's *As You Like It*; (*b*) Tennyson's *Idylls of the King*.

62. *John Ferguson Jaffrey Bursary*, annual value £34, tenable for two years. The subjects of examination are the same as for the Lorimer Bursary, No. 61.

### For Students in Arts without Restriction to a Particular Session.

63. *Monteith Bursary*, annual value about £14, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Examination in French.

64. *Muir Junior Bursary in Mathematics*, annual value £9, tenable for sessions 1902-3, 1903-4. The appointment will be determined by the results of the written examinations passed in the course of the session 1901-2 by the public students of the Ordinary Class of Mathematics.

65. *Muir Senior Bursary in Mathematics*, annual value £18, tenable for session 1902-3. The appointment will be determined by the results of the written examinations passed in the course of the session 1901-2 by the public students of the Intermediate Honours Mathematical Class.

66. *Malcolm Kerr Bursary*, annual value £20, tenable for three years. The subjects of examination are in Natural Philosophy, and are the same as for the ordinary Degree of M.A.

67. *James Ferguson Bursary*, annual value £85, tenable for two years. Preference, *cateris paribus*, to natives of Lesmahagow or Muirkirk, or Pictou, Nova Scotia, and also to students of the name Ferguson or Weir, or to the kin of the Founder. The examination is the same as that for Honours in Classics.

### For Students in Arts, or Law, or Medicine.

68 and 69. *Two Macdonald Bursaries*, annual value £15, tenable for four years, for miners under the age of 21 years. Examination in writing, arithmetic, geography, grammar, and history. For the *William Whyte Bursary*, see No. 53.

## 2.—FELLOWSHIPS, SCHOLARSHIPS, Etc.

70. *George A. Clark Scholarship in Classics*, annual value about £168, tenable for four years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the M.A. degree with Honours in Classics, but no student shall be eligible for the examination after the expiration of more than eight winter sessions from the time of his first entering a class qualifying for the M.A. degree.

71. *John Clark (Mile End) Scholarship in Classics*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

72. *John Clark (Mile-End) Scholarship in Mental Philosophy*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

73. *William Euing Fellowship in Mathematics and Natural Philosophy*, annual value £100, tenable for three years. Open to Glasgow Masters of Arts.

74. *John Clark (Mile-End) Scholarship in Mathematics and Natural Philosophy*, annual value £50, tenable for four years. Open to all

Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

75. *Armagh Bursary in Mathematics and Natural Philosophy*, annual value £45, tenable for three years in Theology, Law, or Medicine. Open to students who are presenting themselves for the final examination for the degree of M.A. with Honours in Mathematics and Natural Philosophy.

76 and 77. *Two Breadalbane Scholarships*, annual value £50, tenable for three years. Open to Glasgow Masters of Arts or Bachelors of Science in Engineering Science, who have graduated within a period of not more than three years preceding the competition.

78. *Gladstone Memorial Prize* of books to the value of £5 is open to graduates of this University who have taken the degree of M.A. with Honours or to students presenting themselves in October, 1901, for examination for the Degree of M.A. with Honours in Economic Science, but no one whose Arts course began before session 1895-6 is eligible. See p. 340.

79. *Luke Fellowship*, annual value £95, tenable for three years. Open to Glasgow Masters of Arts. For subjects of examination (English Literature and History), see p. 324.

80. *Snell Exhibition*, annual value about £133, tenable for three years. Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

81. *Sandford Scholarship*, annual value £20, tenable for two years. Open to all matriculated students (not Masters of Arts) who have attended the public Greek classes for not less than two sessions.

82. *Gladstone Historical Prize* of £21, open to Graduates of Glasgow University of not more than two years standing from the date of their first graduation.

83. *Thomas Logan Memorial Medal and Prize* of £12 will be awarded in April, 1902, to the graduate in Arts of the year 1901 who shall have obtained the highest marks in the Degree examinations.

### DATES OF EXAMINATIONS.

The examinations for Bursaries Nos. 1 to 53 and 59 in the above list will commence on Friday, 27th September, at 9 a.m. The examination papers will be given in the following order, viz. :—

| | | | | |
|---|---|---|---|---|
| On Friday, | 27th | September, | 9—11 a.m., | English (1st paper). |
| ,, | ,, | ,, | 12— 2 p.m., | Higher Latin (1st paper). |
| ,, | ,, | ,, | 3— 6 p.m., | Lower Latin. |
| On Saturday, | 28th | ,, | 9—11 a.m., | English (2nd paper). |
| ,, | ,, | ,, | 12— 2 p.m., | Intermediate and Higher Mathematics (1st paper). |
| ,, | ,, | ,, | 3— 6 p.m., | Lower Greek. |
| On Monday, | 30th | ,, | 9—11 a.m., | Higher Latin (2nd paper). |
| ,, | ,, | ,, | 12— 2 p.m., | Intermediate and Higher Mathematics (2nd paper). |
| ,, | ,, | ,, | 3— 6 p.m., | Lower Mathematics. |
| On Tuesday, | 1st | October, | 9—11 a.m., | Higher Greek (1st paper). |

| | | | |
|---|---|---|---|
| On Tuesday, | 1st | October, | 12— 1.30 p.m., French (1st paper). |
| ,, | ,, | ,, | 3— 6 p.m., Dynamics. |
| On Wednesday, | 2nd | ,, | 9—11 a.m., Higher Greek (2nd paper). |
| ,, | ,, | ,, | 12— 2 p.m., French (2nd paper). |
| ,, | ,, | ,, | 3— 4.30 p.m., German (1st paper). |
| On Thursday, | 3rd | ,, | 9—11 a.m., German (2nd paper). |
| ,, | ,, | ,, | 12— 1.30 p.m., Italian (1st paper). |
| ,, | ,, | ,, | 12— 2 p.m., German (additional paper). |
| ,, | ,, | ,, | 3— 5 p.m., Italian (2nd paper). |
| ,, | ,, | ,, | 3— 5 p.m., French (additional paper). |
| On Friday, | 4th | ,, | 9—11 a.m., Mathematics (additional paper). |
| ,, | ,, | ,, | 12— 2 p.m., Latin (additional paper). |
| ,, | ,, | ,, | 3— 5 p.m., Greek (additional paper). |
| On Saturday, | 5th | ,, | 9—11 a.m., English (additional paper). |
| ,, | ,, | ,, | 12— 2 p.m., Dynamics (additional paper). |

The examination for Bursary No. 54 will be held on Tuesday, 1st Oct., at 12 noon, Wednesday, 2nd Oct., at 12 noon and 3 p.m., Thursday, 3rd Oct., at 9 a.m., 12 noon, and 3 p.m.; for Bursary No. 55, on Wednesday, 9th Oct., at 10 a.m.; for Bursaries Nos. 56 to 58, on Tuesday, 22nd Oct., at 10 a.m., and Wednesday, 23rd Oct., at 2 p.m.; for Bursary No. 60, on Saturday, 28th Sept., at 12 noon, Monday, 30th Sept., at 12 noon, and Friday, 4th October, at 9 a.m.; for Bursaries No. 61 and 62, on Wednesday, 9th October, at 10 a.m., and on Friday, 11th October, at 10 a.m.; for Bursary No. 63, on Tuesday, 1st October, at 12 noon, Wednesday, 2nd October, at 12 noon, and Thursday, 3rd October, at 3 p.m.; the examinations for the Bursaries Nos. 68 and 69 will be held in October, on days to be announced hereafter.

The examinations for the Bursaries, Scholarships, and Fellowships Nos. 66, 67 and Nos. 70 to 79 inclusive, in the above list, will be held along with the examinations for Honours in the several departments for the Degree of M.A. in October, 1901; for No. 80 along with the examinations for Honours, in March and April, 1902, the English paper being taken on Saturday, 5th April, at 10 a.m.; for No. 81 in the month of April, 1902; and for the Prize No. 82 in January, 1902.

### DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 54 inclusive, Nos. 56 to 60 inclusive, and Nos. 63, 68, and 69 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Monday, 9th September; and for Bursaries Nos. 55, 61, 62, 66, and 67, not later than Wednesday, 18th September. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant Clerk (Matriculation Office). Candidates for the Bursary No. 26 must, besides, give in their names to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of September; for No. 30, to Mr. Patrick Keith, Writer, Hamilton, before the first day of September; for No. 31 to Mr. Robert Brodie, 77 St. Vincent Street, before the first day of September; for Nos. 32 to 34, to Mr. R. Hope Robertson, 58 St. Vincent Street, before the first day of September; for Nos. 35 to 42, to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, before the first day of September; for Nos. 43 and 44, to Mr. William Jenkins, Writer, Denny, before the first day of September; for Nos. 47 to 50, to Mr. William Mitchell, 134 Wellington Street, before the first day of September; and for No. 53, to Messrs. Hill & Hoggan, 194 Ingram Street, before the first day of September.

Candidates for the Fellowships, etc., Nos. 70 to 79 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 18th September; for No. 80, candidates are expected to inscribe their names in a book kept at the Clerk of Senate's office for the purpose, not later than the 2nd December, 1901; for No. 81, candidates are required to send their names to the Assistant Clerk (Matriculation Office), on 7th March, 1902; and for No. 82 before 2nd December, 1901.

## B.—FACULTY OF SCIENCE.

*Open to Competition during Session* 1901-1902.

1 and 2. *Two Strang Bursaries*, annual value £20, tenable for three years. Open to students of Engineering Science.

3. *Lorimer Bursary in Mathematics*—see No. 60 under Faculty of Arts.

4 and 5. *Two Metcalfe Bursaries*, each of annual value £25, tenable for two years. Open to students entering the class of Chemistry or of Intermediate Honours Mathematics.

6. *Lloyd's Register Scholarship*, annual value £50, tenable for three years. Open to candidates intending to become students of Naval Architecture, whose age does not exceed 23 years.

7. *Malcolm M'Ewen Bursary*—see No. 7 under Faculty of Arts.

8. *Mackinnon Scholarship in Natural History*, £50 in value, tenable for one year, for proficiency in Natural History—open to all matriculated students.

9 and 10. *Muir Bursaries in Mathematics*—see Nos. 64 and 65 under Faculty of Arts.

11 and 12. *Muir Bursaries in Civil Engineering and Mechanics*, each of annual value £12 10s., tenable for session 1902-3.

13. *George Young Bursary*, annual value £35, tenable for one year, for students in the class of Civil Engineering. To be awarded in April, 1902, to the eligible candidate with the best record in the First Science Examination.

14. *Kirk Memorial Prize* of £14 for students completing Final Science Examination for B.Sc. on the side of Naval Architecture. See page 341.

15. *Alexander Donaldson Scholarship*, annual value £40, tenable for two years. To be awarded in April, 1902, to the candidate who stands highest in Chemistry in the First Examination for B.Sc.

The examinations for the Bursaries Nos. 1 and 2 will be held at the same time as the Arts and Science Preliminary Examinations in September and October, 1901; for No. 3 on Saturday, 28th September, at 12 noon, Monday, 30th September, at 12 noon, and Friday, 4th October at 9 a.m.; for Nos. 4 to 7 on Friday, 4th October, and Saturday, 5th October, at 10 a.m. on each day; and for No. 8 on Monday, 30th September, at 10 a.m.

Names of Competitors to be given in to the Assistant Clerk (Matriculation Office), for Nos. 1 to 3 on 9th September, for Nos. 4 to 7 on 18th September, and for Nos. 11 to 13 on 13th March, 1902.

For the *Denny Bursary*, the *Malcolm Kerr Bursary*, the *Taylor Bursaries*, the *James Ferguson Bursary*, the 1851 *Exhibition Science Scholarships*, the *Dobbie Smith Gold Medal*, the *George Harvey Prize*, the *G. R. Muirhead Prize*, and the *Walker Prizes*, see pages 259, 276, 304, 262, 318, 338, 340, 343, and 345 respectively.

## C. FACULTY OF MEDICINE.

1. *Mackintosh Bursary*, annual value about £31, tenable for one year. Open to medical students of either sex who have attended the Lectures on Insanity.

2 and 3. *Two Glasgow Highland Society Bursaries*, annual value of each £25, tenable for five years, for students of Highland descent. Apply to Mr. R. Hope Robertson, 58 St. Vincent Street, before 1st September.

4. *Logan Bursary*, annual value £17, tenable for four years. Open to students entering on their first winter session of study.

5. *Arthur Bursary*, annual value £20, tenable for three years, will be awarded in November to the Queen Margaret student who takes the highest place in the First Professional Examination in March and October, 1901.

6. *Davidson Bursary*, annual value £26, tenable for three years, will be awarded in accordance with the results of the First Professional Examination, a preference being given, *cæteris paribus*, to the Founder's relatives, and to natives of Muirkirk, Dalserf, Lesmahagow, or Loudon.

7. *William Gardiner Bursary*, annual value £13 10s., tenable for two years, will be awarded in November, 1901, for proficiency in Chemistry, Physiology, and Physics. See page 265.

8. *Lorimer Bursary*, annual value £25, tenable for three years. Open to medical students entering on their second winter session.

9. *Rainy Bursary*, annual value £20, tenable for two years. Open to students entering on their third session of medical study. See page 299.

10 and 11. *Two James A. Paterson Bursaries*, annual value £35 and £25 respectively, tenable for four years. Open to students entering on their first or second session of medical study. Examination in Mathematics and Dynamics.

12. *John Monteith Bursary*, annual value about £21, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in March and October, 1901.

13. *Andrew Weir Bursary*, annual value £15, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

14. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

15. *Senior Arnott Prize*, of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

16. *Brunton Memorial Prize*, of about £10, is given to the most distinguished graduate in Medicine of the year.

For the *Denny*, the *Hutchesons' Educational Trust*, the *Taylor*, the *William Whyte*, the *Macdonald*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Medicine, see Nos. 24, 38 to 42, 9, 10, 53, 68, 69, 75 and 67, under Faculty of Arts.

### DATES OF EXAMINATIONS.

The examinations for the Bursary No. 1 in the above list will be held in June, for Nos. 2 to 4, at the same time as the Medical Preliminary; for No. 8 on Monday, 30th September, at 12.30 p.m. and 3 p.m., and on Tuesday, 1st October, at 10 a.m; for Nos. 10 and 11, on Friday and Saturday, 4th and 5th October, at 10 a.m. each day; and for the Prizes Nos. 14 and 15 on Saturday, 6th October, at 2 p.m.

### DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursary No. 1 are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st June; for Bursaries Nos. 2 to 4 and 8, not later than 9th September; and for Prizes 14 and 15, not later than 18th September.

## D.—FACULTY OF LAW.

*Andrew Cunninghame Scholarship*, annual value about £34, tenable for two years, will be awarded in November, 1901, to the most distinguished Bachelor of Laws of the year, special consideration being given to eminence in Scots Law.

For the *William Whyte*, the *Macdonald*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Law, see Nos. 53, 68, 69, 75, and 67 under Faculty of Arts.

## E.—FACULTY OF THEOLOGY.

### *Open to Competition during Session* 1901-2.

1 to 3. *Three John Adam Bursaries*, each of the annual value of £17, tenable for four years. Open to students of Theology of the first year.

4. *Hastie Bursary*, annual value £25, tenable for three years. Open to students of Theology of the first year who are Masters of Arts of any Scottish University, or who have passed all the examinations for graduation in Arts.

4. *Lorimer Bursary*, annual value £25, tenable for three years. Open to students entering the Divinity Hall.

5. *Lumsden Bursary*, annual value £15, tenable for four years. Open

to students of Divinity of the first year, with a preference to the sons of members, or of deceased members, of the Stationers' Company of Glasgow.

6. *James Macfarlane Bursary*, annual value £23, tenable for three years. Open to students entering upon the study of Divinity, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any four subjects taken out of at least two departments for graduation in Arts.

7. *Marshall Bursary*, annual value £15, tenable for four years. Open to students of Theology of the first year, with a preference to the name Marshall.

8. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the Synodical Board for entrance to the Divinity Hall at the University. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, not later than 16th October.

9. *Black Theological Fellowship*, annual value about £120, tenable for one year. Open to Masters of Arts from any of the Universities of Scotland who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1902.

10. *The Findlater Scholarship Prize*, value about £38 sterling, for examination in the subjects for the degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1902.

11. *The Jamieson Prize*, value about £10 sterling, for examination in the subjects for the degree of B.D. Open to students who shall complete the ordinary curriculum of Theological study in the University of Glasgow in March, 1902.

12. *The Macfarlan and Caird Testimonial Prize*, of £21, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

13 and 14. *Dowanhill Prizes*, one of £20, and the other of £10, for Elocution. Open to students of Divinity of the third year.

For the *Armagh* and the *James Ferguson Bursaries*, also tenable by students of Divinity, see Nos. 75 and 67 under Faculty of Arts.

### Dates of Examinations.

The examinations for Nos. 1 to 8 inclusive, in the above list, will be held on Tuesday, 22nd October, and Wednesday, 23rd October, at 10 a.m. each day; and for Nos. 9 to 11, on Tuesday, 22nd October, Wednesday, 23rd October, Thursday, 3rd April, and Friday, 4th April, at 10 a.m. each day.

### Subjects of Examination.

Candidates for Bursaries Nos. 1 to 8 inclusive may select any seven out of the nine subjects in the following list:—

LATIN.—Cicero, *De Amicitia*; Translation from English into Latin.

GREEK.—The Pastoral Epistles.

LOGIC.—Jevons, *Elementary Lessons in Logic.*

MORAL PHILOSOPHY.—Muirhead, *Elements of Ethics.*

MATHEMATICS.—Euclid, Books I., II., III. Algebra to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—Deschanel, *Physics*, Part I.

ENGLISH.—Morley, *First Sketch of English Literature*, Chapter X. A short essay will be prescribed.

HEBREW.—Book of Genesis.

HISTORY.—European History in the Sixteenth Century.

The subjects of examination for Nos. 9, 10, 11, are the same as for the Degree of Bachelor of Divinity.

The subjects of examination for the Prize No. 15 for Session 1901-2 are as follows:—

GREEK.—Epistle to the Ephesians.

DIVINITY.—Biblical Theology.—The Epistles to the Ephesians and Colossians.

HEBREW.—The Book of Jeremiah.

CHURCH HISTORY.—History of the Papacy from 1049 to 1303.

MORAL PHILOSOPHY.—Butler, *Three Sermons on Human Nature.*

### DATES FOR SENDING IN APPLICATIONS.

Candidates for Nos. 1 to 11 inclusive are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 16th October, 1901; for the Prize No. 12 to the Professor of Divinity, not later than 1st November, 1901; and for the Prizes Nos. 13 and 14, to the Professor of Divinity, not later than 18th March, 1902.

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## 5.—*PATRONAGE BURSARIES*, 1901-2.

### A.—FACULTY OF ARTS.

Appointments to the following Bursaries in the gift of Patrons, including bodies corporate and not corporate, fall to be made before the opening of session 1901-2. Candidates are required to present themselves for the Arts Preliminary Examinations, and for this purpose their names must be given in to the Assistant Clerk (Matriculation Office), on or before 10th September.

1. *James Adam Bursary*, see page 247.
2. *Adamson Bursary*, see page 247.

3 and 4. *Two Dundonald Bursaries*, see page 261.

5. *Hamilton Bursary*, see page 270.
6. *Hyndford and Ross Bursary*, see page 275.

7. *Williams Bursary*, see p. 307.

## B.—FACULTY OF MEDICINE.

1. *Macarthur Bursary*, see page 282.
2. *M'Kissack Bursary*, see page 287.
3. *Walton Bursary*, see page 305.

## C.—FACULTY OF THEOLOGY.

1. *Boyd and Sanders Bursary*, see page 251.

2 and 3. *Two Dundonald Bursaries*, see page 261.

4. *Gilhagie and Struthers Bursary*, see page 268.
5. *Hamilton Bursary*, see page 270.
6. *M'Kissack Bursary*, see page 287.

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## 6.—*UNIVERSITY PRIZE ESSAYS.*

### For Session 1901-2.

1. In Mental Philosophy, the University Silver Medal, for the best essay on "The formation and development of Ethical Ideals." All students of the classes of Logic, Moral Philosophy, or English Literature, in session 1900-1901 or 1901-2, may be competitors.

2. The Gartmore Gold Medal, for the best essay on "The Advantages and Disadvantages of Hereditary Monarchy." All matriculated students of the University in session 1901-2 may be competitors. The successful competitor will be required to furnish a second copy of the essay.

3. A Coulter Prize of Five Pounds, for the best essay on "Joseph Addison considered as Essayist and Critic."

4. A Coulter Prize of Five Pounds, for the best translation into Latin of the following passage in Macaulay's *History of England*, Vol. I., chap. i., from the words, "*No English King has ever laid claim to the general legislative power*" . . . down to "*as if no extraordinary event had interrupted the regular course of life.*"

For the Coulter Prizes all matriculated students of the University in session 1901-2 may be competitors.

5. The Henderson Prize of Twenty Guineas, for the best essay on "The History of Sabbath Observance on the Continent of Europe during the second half of the Nineteenth Century." All matriculated students of the University in session 1901-2, and all Masters of Arts who graduated in November, 1896, or thereafter, may be competitors.

6. The Livingstone Gold Medal, for the best essay on "The Influence of Livingstone's Work on the abolition of Slavery." All matriculated students of session 1901-2 may be competitors.

7. The Dobbie-Smith Gold Medal, for the best essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the essay to be accompanied by an illustrative series of Macroscopic and Microscopic Specimens. All matriculated students of session 1900-1901 may be competitors. Essays must be given in by 30th September, 1901.

The essays, with the exception noted above (No. 7), must be given in to the Principal on or before Thursday, 31st October, 1901, after which day none can be received. Each must be distinguished by two mottoes, and accompanied by a sealed letter bearing on the outside the same mottoes, and containing a declaration subscribed by the author that the essay is entirely of his own composition. All quotations in the essays must be carefully marked and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the prize for any subject, if none of the essays on that subject reaches a sufficiently high standard of merit.

## EWING GOLD MEDAL IN SESSION 1902-3.

The subject for the essay in the competition for the Ewing Gold Medal, open to matriculated students in session 1902-3, will be—"James, Marquis of Montrose."

# X.—*HONOURS LIST.*

## NAMES OF GRADUATES WITH HONOURS SINCE THE YEAR 1827

### BACHELORS OF ARTS (B.A.).

| | | | Honourable Distinction. | Highest Distinction. |
|---|---|---|---|---|
| 1827 | [1] Alfred Day, . . . | England, | . . . | Classics.<br>Mental Philosophy. |
| 1831 | James Halley, . . . | Scotland, | . . . | Classics.<br>Mental Philosophy. |
| 1838 | William M'kellar, . | ,, | Classics. | |
| ,, | Francis Tucker, . . | England, | Classics. | |
| 840 | [1] John Daniel Morell, . | ,, | Classics.<br>Mental Philosophy. | |
| 842 | [1] Nathaniel Haycroft, . | ,, | Classics.<br>Mental Philosophy. | |
| 843 | [1] David M'Lauchlan, . | Scotland, | Classics.<br>Mental Philosophy. | |
| 852 | Samuel Crusha Sarjant, | England | . . . . | Classics.<br>Mental Philosophy. |
| 856 | [1] Joseph David Everett, . | ,, | Classics.<br>Mental Philosophy. | |
| ,, | David Johnston, . . | ,, | Mental Philosophy. | |
| 857 | Wm. Thomson Johnston, | Scotland, | . . . | Classics. |
| ,, | Andrew Moody, . . | ,, | Mental Philosophy. | |
| ,, | [1] William Ralph Pattison, | ,, | Classics.<br>Mental Philosophy. | |
| 858 | John MacLeod, . . | ,, | . . . . | Mental Philosophy. |
| ,, | [2] Peter Sinclair Menzies, . | ,, | Classics. | |
| 859 | [1] George Porter, . . | ,, | Classics.<br>Mental Philosophy. | |
| ,, | [1] Joseph Gardner, . . | ,, | Mental Philosophy. | |
| 860 | [1] Richard Vary Campbell, | ,, | . . . . | Mental Philosophy. |
| , | [1] Daniel Munro, . . | ,, | Classics. | |
| 61 | [1] John M'Lean, . . | ,, | Classics.<br>Mental Philosophy. | |
| , | [1] Thomas Carruthers, . | ,, | Classics.<br>Mental Philosophy. | |
| , | [1] William Stewart, . . | ,, | Classics.<br>Mental Philosophy. | |
| , | [3] David Thomas, . . | ,, | Mental Philosophy. | |
| , | [1] George Matheson, . . | ,, | Mental Philosophy. | |
| , | [1] Henry William Bell, . | India, | Mental Philosophy. | |
| | [1] Thomas Robinson, . | England, | Mental Philosophy. | |

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[1] Graduated M.A. in the following year.
[2] Graduated M.A. three years later.
[3] Graduated M.A. two years later.

## MASTERS OF ARTS (M.A.).

| | | | Honourable Distinction. | Highest Distinction. |
|---|---|---|---|---|
| 1827 | George Samuel Evans, . | England, | . . . . . | Classics.<br>Mental Philosophy. |
| ,, | William Cooper, . . | Scotland, | Classics.<br>Mental Philosophy. | |
| 1828 | William Acworth, . | England, | . . . . . | Classics.<br>Mental Philosophy. |
| ,, | Samuel Macurdy Greer, | Ireland, | . . . . . | Classics.<br>Mental Philosophy. |
| ,, | James Rankine, . . | Scotland, | Classics.<br>Mental Philosophy. | |
| ,, | William Baird, . . | ,, | Classics.<br>Mental Philosophy. | |
| ,, | John Reid, . . . | England, | Physical Science. | |
| ,, | Alexander Ure, . . | Scotland, | Physical Science. | |
| 1831 | David L. Arnot, . . | ,, | . . . . . | Classics. |
| ,, | John Jenkins, . . | Wales, | Classics. | |
| ,, | Robert Cotton Mather, . | England, | Classics. | |
| ,, | Neil M'Michael, . . | Scotland, | Physical Science. | |
| 1832 | Andrew Borland Parker, | ,, | . . . . . | Classics. |
| 1836 | John Cunningham, . | ,, | . . . . . | Physical Science. |
| ,, | William Fulton, . . | ,, | Classics.<br>Mental Philosophy. | |
| 1837 | Richard Shaen, . . | England, | Physical Science. | |
| ,, | Thomas Elliot Richardson, | ,, | Physical Science. | |
| ,, | John Blair, . . . | Ireland, | Physical Science. | |
| ,, | William Cuthell, . . | Scotland, | Physical Science. | |
| 1840 | Duncan Harkness Weir, | ,, | Physical Science. | |
| ,, | James Thomson, . . | Ireland, | Physical Science. | |
| ,, | John Buchanan, . . | Scotland, | Physical Science. | |
| 1841 | William Arthur Jones, | Wales, | Classics.<br>Mental Philosophy. | |
| 1842 | Alexander Grierson, . | Scotland, | Physical Science. | |
| ,, | John Davies, . . | England, | Classics.<br>Mental Philosophy. | |
| 1843 | John Trafford, . . | ,, | Classics.<br>Mental Philosophy. | |
| ,, | David Duff, . . . | Scotland, | Physical Science. | |
| 1844 | John Morgan, . . | ,, | Physical Science. | |
| ,, | John Thomson, . . | Ireland, | Physical Science. | |
| ,, | William Turnbull Ker, . | Scotland, | Physical Science. | |
| , | Richard Tomlinson, . | England, | Classics.<br>Mental Philosophy. | |
| | Robert Graham, . . | Scotland, | Physical Science. | |
| | William John Steele, . | Ireland, | Physical Science. | |
| | James Porter, . . | ,, | Physical Science. | |
| | Adam Milroy, . . | Scotland, | Classics.<br>Mental Philosophy. | |
| | Walter David Jeremy, . | England, | Classics.<br>Mental Philosophy. | |

| | | | Honourable Distinction. | Highest Distinction. |
|---|---|---|---|---|
| 1849 | John Kerr, | Scotland, | | Physical Science. |
| ,, | George M'Queen, | ,, | | Physical Science. |
| ,, | Henry Martyn Barker, | England, | | Classics.<br>Mental Philosophy. |
| ,, | John Newton Langley, | ,, | | Classics.<br>Mental Philosophy. |
| 1850 | Alexander Walker, | Scotland, | Classics.<br>Mental Philosophy. | |
| ,, | Horatio Lindsay Taplin, | England, | Classics.<br>Mental Philosophy. | |
| ,, | Robert Masters Theobald, | ,, | Classics.<br>Mental Philosophy. | |
| 1851 | Carstairs Douglas, | Scotland, | Physical Science. | |
| ,, | Daniel Davies Jeremy, | England, | Classics.<br>Mental Philosophy. | |
| 1852 | Thomas Logan, | Scotland, | Physical Science. | |
| ,, | James Wylie Johnston, | ,, | Classics.<br>Mental Philosophy. | |
| 1853 | Charles Abercromby Smith, | ,, | | Physical Science. |
| ,, | William Jack, | ,, | | Physical Science. |
| ,, | Edward John Gibbs, | England, | | Classics.<br>Mental Philosophy. |
| 1856 | James Galbraith, | Scotland, | Physical Science. | |
| ,, | John Murray, | ,, | Physical Science. | |
| 1857 | Joseph David Everett, | England, | | Physical Science. |
| ,, | George Monro Grant, | Nova Scotia. | | Mental Philosophy. |
| ,, | David Herbert, | Scotland, | Mental Philosophy. | |
| ,, | Neil Macpherson, | ,, | Classics.<br>Mental Philosophy. | |
| 1858 | John Weir, | ,, | Mental Philosophy. | |
| 1859 | Robert Whyte, | ,, | Mental Philosophy. | |
| 1860 | Walter Roberts, | ,, | Mental Philosophy. | |

## MASTERS OF ARTS (M.A).

Ordinances No. 14, Sections vi., vii., viii. ; No. 18, Section iii. (1858).

| | | | *Class of Honours and Department.* | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1862 | John Ferguson, | Scotland, | — | — | — | I |
| 1866 | John Mann, | ,, | I | | | |
| ,, | John Fergusson, | ,, | | II | | |
| 1867 | William E. Grigsby, | England, | II | — | — | — |
| ,, | James Smith, | Scotland, | — | | I | — |
| ,, | William Ross, | ,, | — | | II | |
| 1868 | Robert Stewart, | ,, | — | I | | |
| ,, | John Wilson, | ,, | | I | | — |

| | | | *Class of Honours and Department.* | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1869 | Favour James Greg, | Scotland, | ... | I | ... | ... |
| ,, | Adam Semple, | ,, | ... | I | ... | ... |
| ,, | Joseph Loudon, | ,, | ... | ... | II | ... |
| ,, | James M'Intosh, | ,, | ... | I | ... | ... |
| 1870 | John Cross, | U.S.A., | I | I | ... | ... |
| ,, | Matthew M. Dickie, | England, | II | I | ... | ... |
| ,, | James Orr, | Scotland, | ... | I | ... | ... |
| ,, | Robert A. Sinclair, | ,, | ... | II | ... | ... |
| ,, | James D. H. Dickson, | ,, | ... | ... | II | ... |
| ,, | Dugald M'Kichan, | ,, | ... | ... | II | ... |
| 1871 | William S. Fleck, | ,, | ... | I | ... | ... |
| ,, | William Oliver, | Wales, | ... | II | ... | ... |
| ,, | John E. H. Thomson, | Scotland, | ... | II | ... | ... |
| ,, | Colin R. M'Clymont, | ,, | ... | I | ... | ... |
| ,, | Charles S. Dickson, | ,, | ... | II | II | ... |
| 1872 | William Hamilton, | ,, | ... | I | ... | ... |
| ,, | John Watson, | ,, | ... | I | ... | ... |
| ,, | Zachary M. H. Ross, | ,, | ... | II | ... | ... |
| ,, | Archibald Russell, | ,, | ... | II | ... | ... |
| ,, | William G. Miller, | ,, | ... | ... | II | ... |
| ,, | John M. Brown, | ,, | ... | I | ... | ... |
| ,, | Alexander S. Macphee, | ,, | ... | I | ... | ... |
| ,, | James C. MacTaggart, | ,, | ... | ... | I | ... |
| ,, | James Henderson, | ,, | ... | ... | II | ... |
| 1873 | William Bathgate, | ,, | I | ... | ... | ... |
| ,, | John M'Cunn, | ,, | ... | I | ... | ... |
| ,, | Thomas L. Galloway, | ,, | ... | ... | I | ... |
| ,, | David Hunter, | ,, | II | I | ... | ... |
| ,, | Robert Harvey, | ,, | I | ... | ... | ... |
| ,, | Thomas H. Miller, | ,, | ... | ... | I | ... |
| ,, | Buchanan Blake, | ,, | ... | II | ... | ... |
| ,, | James Arthur, | ,, | ... | ... | II | ... |
| 1874 | James Bonar, | ,, | I | I | ... | ... |
| ,, | James G. Frazer, | ,, | I | ... | ... | ... |
| ,, | Alexander F. Fraser, | ,, | ... | I | ... | ... |
| ,, | John Wilson Reid, | ,, | I | ... | II | ... |
| ,, | Colin Campbell, | ,, | II | I | ... | ... |
| ,, | James Thomson, | ,, | ... | I | ... | ... |
| ,, | Hugh Hart Currie, | ,, | II | ... | ... | ... |
| ,, | James MacKay, | ,, | ... | II | ... | ... |
| 1875 | Benjamin F. C. Costelloe, | Ireland, | II | I | ... | ... |
| ,, | William Yuill King, | Scotland, | I | ... | ... | ... |
| ,, | William Patrick, | ,, | ... | I | ... | ... |
| ,, | John Patrick, | ,, | II | ... | ... | ... |
| ,, | James S. Russell, | ,, | ... | ... | I | ... |
| ,, | John C. Watt, | ,, | ... | ... | I | ... |
| ,, | John B. Douglas, | England, | II | ... | ... | ... |
| ,, | Neil D. MacLachlan, | Scotland, | ... | II | ... | ... |
| ,, | James Johnston Dobbie, | ,, | ... | ... | ... | I |
| 1876 | James Lambie, | ,, | ... | I | ... | ... |
| ,, | Ebenezer B. Speirs, | ,, | ... | I | ... | ... |

| | | | Class of Honours and Department. | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1876 | Islay F. Burns, | Scotland, | II | | | |
| ,, | Robert MacLehose, | ,, | | II | | |
| ,, | Joseph Conn, | ,, | | | II | |
| ,, | Robert H. Pinkerton, | ,, | | | II | |
| ,, | David Wilson, | ,, | | | II | |
| ,, | John P. Mitchell, | ,, | | I | | |
| ,, | William M. Rankin, | ,, | | I | | |
| ,, | Andrew Gray, | ,, | | | II | |
| 1877 | Wallace M. Lindsay, | ,, | I | II | | |
| ,, | Alexander S. Wilson, | ,, | | | | I |
| ,, | James Kidd, | ,, | | I | | |
| ,, | Thomas B. Kilpatrick, | ,, | | I | | |
| ,, | Mungo W. M'Callum, | ,, | | II | | |
| ,, | William Allan, | ,, | | | II | |
| ,, | James Arthur, | ,, | | | II | |
| 1878 | Robert Mackintosh, | ,, | II | I | | |
| ,, | John Edgar, | ,, | I | | | |
| ,, | John M. Dodds, | ,, | | | I | |
| ,, | David W. Forrest, | ,, | | II | | |
| ,, | Alexander Isdale, | ,, | | I | | |
| ,, | Lewis A. Muirhead, | ,, | | I | | |
| ,, | James Wilson, | ,, | II | | II | |
| 1879 | John Wilson Marshall, | ,, | I | II | | |
| ,, | Francis Wm. Clark, | ,, | II | II | | |
| ,, | Henry Jones, | Wales, | | I | | |
| ,, | William T. Bankhead, | Scotland, | | II | | |
| ,, | Andrew Rutherfurd, | ,, | | II | | |
| ,, | James Thomson, | Ireland, | | | II | |
| ,, | James Denney, | Scotland, | I | I | | |
| ,, | James Kippen Duff, | ,, | I | | | |
| ,, | Robert Tannahill Younger, | ,, | | II | | |
| ,, | William L. Macindoe, | ,, | | | II | |
| 1880 | Alexander Gregory, | ,, | II | | | |
| ,, | Thomas Gregory, | ,, | I | I | I | |
| ,, | Alexander N. Cumming, | ,, | II | II | | |
| ,, | Hugh Young Reyburn, | ,, | II | II | | |
| ,, | John G. A. Dow, | ,, | II | | | |
| ,, | John Henderson, | ,, | | II | | |
| 1881 | Cecil J. Swan, | ,, | II | | | |
| ,, | Francis H. Stead, | England, | II | I | | |
| ,, | David S. Adam, | Scotland, | | I | | |
| ,, | William Granger, | ,, | | I | | |
| ,, | Robert F. Muirhead, B.Sc., | ,, | | | I | |
| ,, | Alexander Russell, | ,, | | | I | |
| ,, | Patrick H. Aitken, | ,, | II | | | |
| ,, | Alexander Anderson, | ,, | II | | | |
| ,, | Robert T. Loudon, | ,, | | II | | |
| ,, | Robert Veitch, | England, | | II | | |
| ,, | James Maclay, | Scotland, | | | II | |
| ,, | John Stuart, | ,, | | | II | |
| ,, | James Hamilton, | ,, | | | II | |

| ,, | | | *Class of Honours and Department.* | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1882 | James A. M'Callum, | Scotland, | ... | I | ... | ... |
| ,, | John H. Fullarton, | ,, | ... | ... | ... | I |
| ,, | Charles P. Blair, | ,, | ... | II | ... | ... |
| ,, | James M. Dodds, | ,, | I | ... | ... | ... |
| ,, | John S. MacKenzie, | ,, | ... | I | ... | ... |
| ,, | William Smart, | ,, | ... | I | ... | ... |
| ,, | John Weir, | ,, | ... | ... | I | ... |
| ,, | John Gray, | ,, | ... | II | ... | ... |
| ,, | Charles Steele, | ,, | ... | II | ... | .. |
| 1883 | John Aitken Orr, | ,, | ... | I | ... | ... |
| ,, | Alexander Robinson, | ,, | ... | II | ... | ... |
| ,, | Lewis Hughes, | Wales, | ... | II | ... | .. |
| ,, | Francis Anderson, | Scotland, | ... | I | ... | ... |
| ,, | Wm. S. M'Kechnie, | ,, | ... | I | ... | .. |
| ,, | William Muir, | ,, | ... | I | ... | .. |
| ,, | James W. Inglis, | ,, | II | ... | ... | .. |
| ,, | Patrick H. Hutchinson, | Ireland, | II | ... | ... | .. |
| ,, | Robert A. Moody, | Scotland, | II | ... | ... | ... |
| ,, | William T. Mitchell, | ,, | ... | ... | II | ... |
| 1884 | Andrew A. Mitchell, | ,, | I | ... | .. | ... |
| ,, | James M'Millan, | ,, | I | ... | ... | ... |
| ,, | Archd. S. Laidlaw, | ,, | ... | I | ... | ... |
| ,, | John Mack, | ,, | ... | ... | I | ... |
| ,, | William Clark, | ,, | II | ... | ... | ... |
| ,, | John Struthers, | ,, | II | I | ... | ... |
| ,, | Archibald M'Laren, | ,, | I | ... | ... | ... |
| ,, | John Adams, | ,, | ... | I | ... | ... |
| ,, | James Barr, | ,, | ... | I | ... | ... |
| ,, | Gavin Lambie, | ,, | .. | I | ... | ... |
| ,, | Robert M. Wenley, | ,, | ... | I | ... | ... |
| ,, | George G. Henderson, | ,, | ... | ... | ... | I |
| ,, | Campbell N. Moody, | ,, | II | II | ... | ... |
| ,, | Hugh Stevenson, | ,, | ... | II | ... | ... |
| ,, | James Strachan, | ,, | ... | ... | II | ... |
| ,, | Alex. B. Symington, | ,, | II | ... | ... | ... |
| 1885 | John Lee, | ,, | I | ... | ... | ... |
| ,, | James Buchanan, | ,, | ... | ... | I | ... |
| ,, | Norman Fraser, | ,, | ... | ... | I | ... |
| ,, | James P. M'Laren, | ,, | II | ... | ... | ... |
| ,, | William Binnie, | ,, | ... | II | ... | ... |
| ,, | David Frew, | ,, | ... | II | ... | ... |
| ,, | Richard Glaister, | ,, | ... | II | ... | ... |
| ,, | David Houston, | ,, | ... | II | ... | .. |
| ,, | Walter Wingate, | ,, | ... | ... | II | ... |
| ,, | William M. Mackay, | ,, | ... | I | ... | ... |
| ,, | Andrew F. Smith, | ,, | ... | I | ... | ... |
| ,, | Alex. L. Watson, | ,, | II | ... | ... | ... |
| ,, | Archibald J. Macnicol, | ,, | ... | ... | II | ... |
| 1886 | Charles F. Fleming, | England, | ... | I | ... | ... |
| ,, | Wellstood A. Watt, | Scotland, | ... | I | ... | ... |
| ,, | John Dougall, | ,, | ... | ... | I | ... |

| | | | Class of Honours and Department. | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1886 | John M'Cowan, B.Sc., | Scotland, | — | — | I | — |
| .. | William H. Carslaw, | .. | — | | II | |
| .. | Magnus M'Lean, | .. | — | | II | |
| .. | John A. Craib, | .. | I | | | |
| .. | Robert A. Duff, | .. | — | I | | — |
| .. | William Johnston, | .. | II | II | | |
| .. | James Macmillan, | .. | I | | II | — |
| .. | Robert A. Nicolson, | .. | | | II | |
| 1887 | James Finlayson, | .. | II | — | II | |
| .. | James Gifford, | .. | III | II | — | — |
| .. | Charles Mackay Gordon, | W. Indies, | | I | | |
| .. | David Smith, | Scotland, | I | | | |
| .. | John Watson Bryson, | .. | I | I | — | |
| .. | Robert Gardner, | .. | | II | | |
| .. | James Colville, | .. | | I | | |
| .. | Daniel Kirkwood, | .. | — | II | — | |
| .. | Alexander Louis Taylor, | .. | II | | — | |
| .. | John Thomson, | .. | | | II | |
| 1888 | John Esslemont Adams, | .. | II | | | |
| .. | Archibald Lamont, | .. | — | II | | |
| .. | Arthur David Millar, | .. | I | — | | I |
| .. | John Dickson Sinclair, | .. | | II | | |
| .. | Evan Keri Evans, | Wales, | | I | | — |
| .. | Robert Kennedy, B.Sc., | Scotland, | — | — | — | I |
| .. | John Liddle King, | .. | | II | | II |
| .. | Malcolm Macnicol, | .. | — | — | II | |
| .. | Ernest Findlay Scott, | England, | I | I | — | |
| .. | Robert Scrymgeour, | Scotland | | I | | |
| .. | Robert Reid Strachan, | .. | | II | | |
| .. | John Cunningham Walker, | .. | — | II | | |
| 1889 | Norman de Garis Davies | England, | | II | | |
| .. | George Davidson Kempt, | Scotland, | — | II | | — |
| .. | Alfred Ernest Garvie, | Poland, | — | I | | |
| .. | John Hunter Harley, | Scotland, | — | I | | |
| .. | John Brownlee, | .. | — | — | I | — |
| 1890 | James Fairlie Gemmill, | .. | I | | | |
| .. | John Edgar M'Fadyen, | .. | I | — | | |
| .. | James Robertson Cameron, | .. | — | I | — | — |
| .. | James Moffatt, | .. | II | | — | |
| .. | James Peter Wilson, | .. | II | | — | |
| .. | John Easton Black, | .. | — | II | — | |
| .. | George Douglas Brown, | .. | I | — | — | |
| .. | Robert Bulloch Douglas, | .. | | I | — | — |
| .. | Peter Pinkerton, | .. | | | I | |
| .. | Douglas Blyth Binning, | .. | | II | | |
| .. | Robert Baillie Douglas, | .. | — | II | — | — |
| .. | James Hair Maclean, | .. | | II | — | |
| .. | Gilbert Buchanan, | .. | | | II | |
| .. | Alexander Holm, | .. | — | — | II | |
| 891 | John Hamilton Pagan | .. | I | | | |
| .. | John Gillies, | .. | II | | | — |

| | | | Class of Honours and Department. | | | |
|---|---|---|---|---|---|---|
| | | | Classics. | Mental Philos. | Math. & Nat. Phil. | Natural Science. |
| 1891 | John M'Gilchrist, | Scotland, | II | ... | ... | ... |
| ,, | Horatio Scott Carslaw, | ,, | ... | ... | I | ... |
| ,, | James Holm, | ,, | ... | ... | I | ... |
| ,, | Nicol Macnicol, | ,, | II | II | ... | ... |
| ,, | John White, | ,, | ... | II | ... | ... |
| 1892 | David Donaldson Robertson, | ,, | ... | I | ... | ... |
| ,, | Daniel Lamont, | ,, | ... | II | I | ... |
| ,, | John Gillespie Spens, | ,, | II | ... | ... | ... |
| ,, | Alexander Taylor, | ,, | II | ... | ... | ... |
| ,, | Walter Stewart, | ,, | ... | ... | I | ... |
| 1893 | Donald Nicol Dow, | ,, | I | ... | ... | ... |
| ,, | Gilchrist Gibb Alexander, | ,, | ... | I | ... | ... |
| ,, | Robert Stevenson Horne, | ,, | ... | I | ... | ... |
| ,, | William Sandilands Templeton, | ,, | ... | ... | I | ... |
| ,, | Wm. Carrick Anderson, | ,, | ... | ... | ... | I |
| ,, | Edward H. Wallace, | ,, | II | ... | II | ... |
| 1894 | Campbell M. Macleroy, | ,, | I | ... | ... | ... |
| ,, | Robert George Nisbet, | ,, | II | ... | ... | ... |
| ,, | Andrew Robertson, | ,, | II | ... | ... | ... |
| ,, | John Charles Scott, | Ireland, | I | ... | ... | ... |
| ,, | Charles William Thomson, | Scotland, | I | ... | ... | ... |
| ,, | William Romaine Paterson, | ,, | ... | I | ... | ... |
| ,, | Charles Shirra Dougall, | ,, | ... | ... | I | ... |
| ,, | William Craig Henderson, | ,, | ... | ... | I | ... |
| ,, | John Macfarlane Forsyth, | ,, | II | ... | ... | ... |
| 1895 | William Gow, | ,, | I | ... | ... | ... |
| ,, | Joseph Ferguson M'Fadyen, | ,, | I | ... | ... | ... |
| ,, | Gavin Lang Pagan, | ,, | ... | I | ... | ... |
| ,, | William Anderson Lindsay, | ,, | ... | ... | I | ... |
| ,, | Thomas Nisbet, | ,, | ... | ... | I | ... |
| ,, | John Alexander Duke, | ,, | ... | II | ... | ... |
| 1896 | David Hodge Crawford, | ,, | I | ... | ... | ... |
| ,, | John Freeland Cunningham, | ,, | II | ... | ... | ... |
| ,, | John Girvan, | ,, | II | ... | ... | ... |
| ,, | James M'Murtrie, | ,, | II | ... | ... | ... |
| ,, | James Slater Dunlop, | ,, | ... | ... | II | ... |
| ,, | William Morrison, | ,, | ... | II | ... | ... |
| ,, | Samuel Harvey M'Ewing, | ,, | ... | II | ... | ... |
| ,, | Alexander Smith, | ,, | ... | II | ... | ... |
| ,, | John Miller, | ,, | ... | ... | I | ... |
| 1898 | William John Saull, | England, | ... | II | ... | ... |
| 1899 | James Moffat, | Scotland, | ... | ... | II | ... |

## MASTERS OF ARTS (M.A.).

(Ordinance No. 11, Section [illegible]; No. 44 Section [illegible])

| | | | First Class. | Second Class. | Third Class. |
|---|---|---|---|---|---|
| 1894 | Henry Noel Brailsford, | England, | Mental Philosophy. | Classics. | |
| 1895 | William Gregory Bell, | do., | Classics. | | |
| ,, | James Wallace Peck, | Scotland, | Math. & Nat. Phil. | | |
| ,, | William King Gillies, | do., | Classics.<br>Mental Philosophy. | | |
| 1896 | James Paterson Brander, | do., | Classics. | | |
| ,, | John Maclean Ramsay, | do., | Classics. | | |
| ,, | Horace Fenton Wallace, | do., | Classics. | | |
| ,, | James Gillespie, | do., | . . . . | Classics. | |
| ,, | William Boyd, | do., | Mental Philosophy. | | |
| ,, | James Wilson Copeland, | do., | Math. & Nat. Phil. | | |
| ,, | Adam Bell Stewart, | do., | Math. & Nat. Phil. | | |
| ,, | George Donald Valentine, | do., | Math. & Nat. Phil. | | |
| ,, | Arthur West Wilkie, | England, | . . . . | Math. & N.P. | |
| ,, | John Young, | Scotland, | . . . . | Math. & N.P. | |
| 1897 | George Stewart Adams, | do., | Classics. | | |
| ,, | Robert Daniels Bell, | England, | Classics. | | |
| ,, | John W. Henderson, | Scotland, | Classics. | | |
| ,, | Peter William Monie, | do., | Classics. | | |
| ,, | Marion M. Crichton, | China, | . . . . | Classics. | |
| ,, | Alex. James Martin, | Scotland, | . . . . | Classics. | |
| ,, | Thomas Neilson, | do., | . . . . | Classics. | |
| ,, | Allan Gibson, | do., | . . . . | . . | Classics. |
| ,, | Thomas Ellis Jones, | Wales, | Mental Philosophy. | | |
| ,, | David Stevenson, | Scotland, | . . . . | . . | English. |
| ,, | William M. R. Pringle, | ,, | History. | Classics. | |
| ,, | Gavin Scott, | ,, | History. | Classics. | |
| ,, | Adam Hamilton, | ,, | Classics. | | |
| ,, | James William Baird, | ,, | . . . . | Classics. | |
| ,, | Grace Foulis Hay, | ,, | . . . . | Classics. | |
| ,, | William N. Raeburn, | ,, | . . . . | Classics. | |
| ,, | Andrew Boyd Scott, | ,, | Mental Philosophy. | | |
| ,, | John Scoular Thomson, | ,, | Mental Philosophy. | | |
| ,, | Alex. M'Callum Scott, | ,, | . . . . | . . | Ment. Phil. |
| ,, | James Campbell Ker, | ,, | Math. & Nat. Phil. | | |
| ,, | William Wylie Fulton, | ,, | . . . . | English. | |
| ,, | Richard R. Williams, | Wales, | . . . . | . . | English. |
| 1898 | John Lyle Morison, | Scotland, | History.<br>English. | | |
| ,, | William H. Begg, | ,, | Classics. | | |
| ,, | David L. Blair, | ,, | Classics. | | |
| ,, | John Harvey, | ,, | Classics. | | |
| ,, | Dorothy N. T. Murray, | ,, | . . . . | Classics. | |
| ,, | Constance Tannahill, | England, | . . . . | . . | Classics |
| ,, | Alexander A. Gardner, | Scotland, | Math. & Nat. Phil. | | |
| ,, | James E. Henderson, | ,, | . . . . | Math. & N.P. | |
| ,, | Wm. Fulton (Uddingston), | ,, | Classics. | Math. & N.P. | |

| | | | First Class. | Second Class. | Third Class. |
|---|---|---|---|---|---|
| 1898 | Eliz. Pettigrew Taylor, | Scotland, | Math. & Nat. Phil. | English. | |
| ,, | Willam Longmore Parkin, | ,, | . . . . . | . . | Classics,<br>M. Phil. |
| ,, | Robert M'Ewan, | ,, | Classics. | | |
| ,, | Helen Rutherfurd, | ,, | Classics. | | |
| ,, | William Fulton (Glasgow), | ,, | . . . . . | Classics. | |
| ,, | William Henderson Love, | ,, | . . . . | Classics. | |
| ,, | Alexander Auchinachie, | ,, | . . . . . | . . | Classics. |
| ,, | And. James Campbell Kerr, | ,, | . . . . . | . . | Classics. |
| ,, | Hugh Reid Buchanan, | ,, | Mental Philosophy. | | |
| ,, | David H. Tweeddale, | ,, | Mental Philosophy. | | |
| ,, | Robert Candlish, | ,, | . . . . . | Ment. Phil. | |
| ,, | Robert John Tainsh Bell, | ,, | Math. & Nat. Phil. | | |
| ,, | Thomas Pullar, | ,, | Math. & Nat. Phil. | | |
| ,, | Joseph White, | ,, | Math. & Nat. Phil. | | |
| ,, | Hugh Brown, | ,, | . . . . . | Math. & N.P. | |
| ,, | Peter Lowson, | ,, | . . . . . | Math. & N.P. | |
| ,, | John Jeffrey, | ,, | . . . . . | . . | M. & N.P. |
| ,, | Helen Margaret Rule, | ,, | English. | | |
| ,, | Henry Murphy, | ,, | . . . . . | English. | |
| ,, | Henry Givan Webber, | ,, | . . . . . | . . | English. |
| 1899 | Samuel F. H. Mackay | ,, | Classics. | | |
| ,, | Archibald Main, | ,, | Mental Philosophy. | | |
| ,, | John Edgar, | ,, | English. | | |
| ,, | Maude Gertrude May, | England, | English. | | |
| ,, | Alexander D. Lindsay, | Scotland, | . . . . . | Classics. | |
| ,, | Charles G. M'Ilravey, | Ireland, | . . . . . | Classics. | |
| ,, | Gordon B. Nielson, | Scotland, | . . . . . | English. | |
| ,, | Jessie Lyon Gilchrist, | ,, | . . . . | Mod. Lang. | |
| ,, | Minnie Louise Arthur, | ,, | . . . . . | . . | M. Lang. |
| ,, | David M. Stewart, | ,, | Math. & Nat. Phil. | | |
| ,, | John Lochhead, | ,, | English. | History. | |
| ,, | Ritchie Girvan, | ,, | English. | . . | Classics. |
| ,, | John Anderson, | ,, | . . . . . | Classics,<br>Math. & N.P. | |
| ,, | William A. Edward, | England, | Classics. | | |
| ,, | James Sheridan, | Scotland, | Classics. | | |
| ,, | James M'Clelland, | ,, | . . . . . | Classics. | |
| ,, | James Faulds, | ,, | . . . . . | . . | Classics. |
| ,, | Arch. M. Macmillan, B.Sc., | ,, | Math. & Nat. Phil. | | |
| ,, | David K. Picken, | ,, | Math. & Nat. Phil. | | |
| ,, | Robert W. Stewart, | ,, | . . . . . | Math. & N.P. | |
| ,, | Katharine T. M'Millan, | ,, | English. | | |
| ,, | George Ogilvie, | ,, | English. | | |
| ,, | Janet Spens, | ,, | English. | | |
| 1900 | Mabel Atkinson, | England, | Mental Philosophy. | Classics. | |
| ,, | George H. Stevenson, | Scotland, | Classics. | | |
| ,, | Robert B. Carslaw, | ,, | Math. & Nat. Phil. | | |
| ,, | Peter Ramsay, | ,, | Math. & Nat. Phil. | | |
| ,, | James Jack, | ,, | . . . . . | Classics. | |
| ,, | Norman R. Mitchell, | ,, | . . . . . | Classics. | |
| ,, | Matthew Babington, | ,, | . . . . . | Ment. Phil. | |
| ,, | Peter Lowe, B.Sc., | ,, | . . . . . | Math. & N.P. | |

| | | | First Class. | Second Class. | Third Class. |
|---|---|---|---|---|---|
| 1900 | Winifred Boyd, . | India, | | English. | |
| .. | Margaret G. Fulton, . | Scotland, | | Mod. Lang. | |
| .. | James Johnston, . | do., | Mental Philosophy. | | |
| .. | Alex. B. Mackay, . | do., | Mental Philosophy. | | |
| .. | Alexander Montgomerie, | do., | Mental Philosophy. | | |
| .. | David G. Taylor, . | do., | Math. and Nat. Phil. | | |
| .. | Margaret L. Anderson, | do., | English. | | |
| .. | Peter George Smith, . | do., | | Ment. Phil. | |
| .. | John Charles [illegible], . | England, | | Math. & N. P. | |
| .. | Roderick M. Nicol, . | Scotland, | | Math. & N. P | |
| .. | James Miller Clark, . | do., | | | M. & N. P. |
| 1901 | James F. Dyer, . | Japan, | Classics. | | |
| .. | Peter Hately Waddell | Singapore, | Classics. | | |
| .. | Francis P. H. Stirling, | Scotland, | Math. and Nat. Phil. | | |
| .. | Hugh Watt, . . | do., | English. | | |
| .. | Marion K. Binnie, . | do., | Modern Languages. | | |
| .. | William H. Buchan, . | do., | | Classics. | |
| .. | Owen L. Jones, . | Wales, | | Classics. | |
| .. | Thomas R. M'Murtrie, | Scotland, | | Classics. | |
| .. | Alexander Russell, . | do., | | Classics | |
| .. | Andrew M'Kerral, . | do., | | Math. & N. P. | |
| .. | Arthur S. [illegible], . | do., | | | Classics. |

## BACHELORS OF SCIENCE (B.Sc.).

| | | | *Honours.* | |
|---|---|---|---|---|
| | | | Natural Science. | Engineering Science. |
| 1879 | Robert F. Muirhead, C.E., | Scotland, | . . . . . | Math. & Nat. Phil. II |
| 1882 | John Cleland, C.E., . | do., | . . . . . | Math. & Nat. Phil. II |
| 1883 | John M'Cowan, C.E., . | do., | . . . . . | Math. & Nat. Phil. II |
| 1884 | William Weir, . . | do., | . . . . . | Math. & Nat. Phil. II |
| .. | James C. Todd, . . | India, | Math. & Nat. Phil. II | |
| 1886 | Lawrence Crawford, . | Scotland, | . . . . . | Math. & Nat. Phil. I |
| 1887 | Angus M'Lean, . . | do., | . . . . . | Math. & Nat. Phil. II |
| 1890 | James Stanley Muir, . | do., | Chemistry. | |
| .. | Robert Watson Smith, . | do., | Chemistry. | |
| 1891 | James Fenwick, . | Australia, | . . . . . | Civil Engineering. |
| .. | Robert Main, . . | Scotland, | Chemistry. | |
| .. | Robert Muir Ferrier, . | do., | . . . . . | Civil Engineering. |
| 1892 | John Dewar Cormack, . | do., | . . . . . | Math. & Nat. Phil. I<br>Civil Engineering. |
| 1892 | Jas. Blacklock Henderson, | Scotland, | . . . . . | Math. & Nat. Phil. I<br>Civil Engineering. |
| .. | James Rankin, . . . | do., | Zoology and Botany. | |
| .. | William S. Cook, . . | do., | Physiology. | |
| .. | David R. Boyd, . . | do., | Chemistry. | |
| 1893 | James C. Robertson, M.A., | do., | Anat. and Physiol. | |

| | | | *Honours.* | |
|---|---|---|---|---|
| | | | Natural Science. | Engineering Science. |
| 1894 | Charles Forbes, . | . Scotland, | . . . . . | Civil Engineering. |
| ,, | Wm. Henry Lang, . | . England, | Botany and Zoology. | |
| ,, | George Wm. Shearer, | . Ireland, | . . . . . | Civil Engineering, |
| 1895 | Wm. Craig Henderson, | . Scotland, | . . . . . | Math.&Nat.Phil.1 |
| ,, | Hugh Calderwood, | do., | Anat. and Physiol. | |
| . | John Allan Craigie Macewen, | do., | Anat. and Physiol. | |
| ,, | William Hamilton, . | do., | . . . . . | Civil Engineering. |
| ,, | Campbell Macmillan, . | do., | . . . . . | Civil Engineering. |
| ,, | Thomas Hunter, M.A., . | do., | Anat. and Physiol. | |
| ,, | William Martin, M.A., . | do., | Anat. and Physiol. | |
| 1896 | William S. Templeton, M.A., | do., | . . . . . | Math. &. Nat. Phil 1 |
| ,, | Peter L. L. Craig, M.A., | do., | Anat. and Physiol. | |

The Honours awarded to the Bachelors of Science in the foregoing list were awarded under the Old Regulations. Now every graduate in Pure Science under Ordinance No. 12 passes the Final Science Examination on a standard equivalent to the standard for the Degree of M.A. with Honours.

## DOCTORS OF MEDICINE (M.D.). (*O.R.*) HONOURS.

| | | | | | |
|---|---|---|---|---|---|
| 1845 | Alexander Lindsay, | Scotland. | 1853 | Richard Stanistreet, | Ireland. |
| ,, | James Craigie Murray, | do. | ,, | David Knox, | do. |
| ,, | Francis Reynolds, | Ireland. | 1854 | John Lindsay Stewart, | Scotland. |
| ,, | John Brown, | Scotland. | ,, | James Fraser Paton, | do. |
| ,, | John Gardiner, | do. | ,, | David Easton, | eland. |
| ,, | Donald Cameron, | Isle of Man. | 1855 | William Leishman, | Scotland. |
| ,, | Adam Nicholson, | Scotland. | ,, | William J. Lewis, | New Brunswick |
| ,, | John Duke, | Ireland. | 1855 | Alexander Robertson, | Scotland. |
| 1847 | William Parry, | Wales. | 1857 | Thomas Beaumont, | Ireland. |
| ,, | Robert Livingstone, | Scotland. | ,, | Joseph M. Fleming, | Scotland. |
| ,, | Alexander B. Sharpe | Scotland. | ,, | Maxwell Rodgers, | Ireland. |
| 1848 | Charles H. Hitchen, | England. | 1858 | John Couper, | Scotland. |
| ,, | James Steven, | Scotland. | ,, | Thomas M'Call Anderson, | do. |
| ,, | John Coates, | Ireland. | 1859 | Daniel Dougal, | do. |
| 1849 | Robt. Brown M'Clelland, | Ireland. | 1861 | William Marshall, | America. |
| ,, | Thomas Nicholson, | Scotland. | ,, | John M. Murray, | Scotland. |
| ,, | Robert Settle, | England. | 1862 | James A. Allan, | do. |
| ,, | Richard Thomas Tracy, | Ireland. | 1863 | Robert M'K. Duncan, | do. |
| ,, | Matthew John Rae, | Scotland. | 1863 | George M'Donald, | do. |
| 1850 | John Ternan, | Ireland. | ,, | Samuel J. Moore, | Ireland. |
| ,, | John Henry Eddowes, | England. | ,, | William Fraser, | Nova Scotia. |
| ,, | James Brash, | Scotland. | ,, | T. Algernon Chapman, | Scotland. |
| 1851 | Alexander Marshall, | do. | ,, | Algernon Wood Smith, | do. |
| ,, | Andrew Spearing, | Ireland. | ,, | John P. Atkinson, | England. |
| ,, | James B. Montgomery, | England. | 1864 | John Wyber, | Scotland. |
| ,, | Robert Perry, | Scotland. | ,, | John G. Wilson, M.A., | do. |
| ,, | John Watson, B.A., | do. | 1865 | Arthur A. Jamieson, | England. |
| 1853 | John Ritchie Brown, | do. | 1867 | Fred. H. Quaife, M.A., | Sydney, N.S.W. |
| ,, | Charles D. Campbell, | Ireland. | | | |

## DOCTORS OF MEDICINE (M.D.). (*N.R.*)

1876 [1] Gardner, William, M.B., England.

1877 [1] Turner, William Y., M.B., Scotland. Thesis, "The Ethnology of the Motu."

1879 [1] Fleming, William James, M.B., Scotland. Thesis, "The Dicrotic Notch in Pulse Tracings."

1880 [1] Oliver, Thomas, M.B., Scotland. Thesis, "Heredity viewed in its relation to Responsibility."

1880 [1] Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family—most probably on a Continent in the Indian Ocean—certainly within the Tropics."

1881 [1] Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation between Abscess of Brain and Aural Disease."

1881 [1] Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."

1881 [1] Drummond, James, M.B., Scotland. Thesis, "Sea Sickness: its Etiology, Symptoms, and Treatment."

1881 [1] Macphail Donald, M.B., Scotland. Thesis, "Chemical Investigations on the Degenerative Changes in Diseased Bone."

1882 [1] Cairns, David, M.B. Thesis, "An Outbreak of Pyæmia."

1882 [1] Adam, Thomas Bate, M.B., Scotland. Thesis, "The Pathology and Etiology of Elephantoid Disease."

1882 [1] Rankin, Guthrie, M.B., Scotland. Thesis, "Puerperal Fever."

1883 [1] Inglis, David Wood, M.A., M.B., Scotland. Thesis, "On the Prevention of Lead Poisoning among Workers in White Lead Factories."

1883 [1] Newman, David, M.B., Scotland. Thesis, "Displacements of the Kidney."

1884 [1] Lawrie, J. Macpherson, M.B., Scotland. Thesis, "On some Symptoms of Locomotor Ataxy."

1884 [1] Allan, Robert, M.B., Scotland. Thesis, "Dermoid Cysts."

1884 [2] Middleton, George S., M.A., M.B., Scotland. Thesis, "On the Pathology of Pseudo-Hypertrophic Muscular Paralysis."

1884 [1] Steven, John Lindsay, M.B., Scotland. Thesis, "The Pathology of Suppurative Inflammations of the Kidneys."

1885 [2] Mackay, John Yule, M.B., Scotland. Thesis, "The Origin and Development of the Larger Arteries."

1885 [1] Macvie, William, M.B., Scotland. Thesis, "Atrophic Infantile Paralysis."

1885 [1] Dougal, James, M.B., Scotland. Thesis, "Puerperal Pyrexia."

1886 [1] Lawrie, William John, M.B., Scotland. Thesis, "Pathological Formations of the Skin."

1886 [2] Somerville, William Francis, M.A., B.Sc., M.B., Scotland. Thesis, "Uro-semiotic; the Pathological Chemistry of the Urine, the complete Quantitative Analysis of the Urine; a valuable aid to Clinical Diagnosis."

1886 [2] Stewart, Robert Sloss, M.B., Scotland. Thesis, "Observations on the Spinal Cord in the Insane."

1886 [1] Rankin, Alexander, M.B., Scotland. Thesis, "Cerebral Cases, with remarks."

1886 [1] Auld, Alexander Gunn, M.B., Scotland. Thesis, "Studies in Materia Medica."

1887 [1] Chalmers, Archibald Kerr, M.B., Scotland. Thesis, "The Temperature Curve of Specific Fevers."

1887 [1] Neilson, Henry John, M.B., Scotland. Thesis, "On the observation of the pupil as a guide in the administration of Chloroform."

1887 [1] Brown, John, M.B., Scotland. Thesis, "Maternal Impressions."

1887 [1] Love, John, M.B., Scotland. Thesis, "Three cases of Cortical Epilepsy considered in relation to the localization of the discharging lesion."

1888 [1] Finlay, David, M.B., Scotland. Thesis, "Clinical Observations on Epileptic Insanity."

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[1] Commended for Thesis. [2] Highly Commended.

1888 [1] Love, James Kerr, M.B., Scotland. Thesis, "The Limits of Hearing."
1888 [1] Macpherson, Charles, M.B., Scotland. Thesis, "Plural Pregnancies."
1888 [1] Wallace, William, M.B., Scotland. Thesis, "The Field of Vision: with special reference to its Anomalies in Diseases of the Nervous System."
1889 [1] Christie, William Walls, M.B., C.M., Scotland. Thesis, "The Outbreak of Febrile Disease in St. Mary's Roman Catholic Industrial Schools, Glasgow, March 1888: its Clinical Features and Nature."
1889 [1] Kelly, James Kellock, M.B., Scotland. Thesis, "Private Obstetric Practice: an analysis of 3000 consecutive cases."
1889 [1] Mackenzie, William James, M.B., India. Thesis, "The effects of the conditions of London Life on the Nervous System: with remarks on the treatment."
1889 [1] Hinshelwood, James, M.A., M.B., Scotland. Thesis, "A Clinical Study of Syphilitic Diseases of the Nervous System."
1890 [1] Anderson, John Alexander, M.B., Scotland. Thesis, "On Tetanus: with a record of six cases."
1890 [1] Bankier, Alexander Milne, M.B., England. Thesis, "Influenza."
1891 [1] Smith, John Macdowal, M.B., Scotland. Thesis, "The Disposal of Sewage and City Refuse."
1891 [2] Rhodes, Hugh, M.B., C.M., England. Thesis, "Koch's Treatment in Phthisis and Lupus."
1891 [1] Bannatyne, Gilbert Alexander, M.B., C.M., Scotland. Thesis, "The Treatment of Diphtheria by the Injection of the Erysipelas Albumose."
1891 [1] M'Gregor, Andrew Nicholson, M.B., C.M., Scotland. Thesis, "Some Notes on the Repair of Bone, with special reference to Transplantation and other Artificial Aids."
1891 [1] Ramsay, Andrew Maitland, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre."
1891 [1] Johnstone, John Carlyle, M.B., C.M., Scotland. Thesis, "Some Notes on the use of Sulphonal."
1892 [1] Highet, Hugh, M.B., C.M., Scotland. Thesis, "The Bronchiopneumonia of Influenza, as it occurs in the Adult Subject."
1892 [1] Park, Alexander Glen, M.B., C.M., Scotland. Thesis, "Defects of Speech."
1893 [1] Lang, Hugh, M.B., C.M., Scotland. Thesis, "Empyema, with Notes on a Series of Cases."
1893 [1] Gillies, Hugh Cameron, M.B., C.M., Scotland. Thesis, "The Theory of Counter-irritation."
1893 [2] Carslaw, John Howie, M.A., M.B., C.M., Scotland. Thesis, "On the severer forms of Scarlet Fever, with special reference to Antipyretic Methods of Treatment."
1893 [1] Adam, Robert Hillhouse, M.A., M.B., C.M., Scotland. Thesis, "Observations
1893 [1] Bryce, Alexander, M.B., C.M., Scotland. Thesis, "Sanitation in Dairy Farms in relation to diseases attributable to Cows' Milk."
1893 [1] Dunlop, Alexander Watson, M.A., M.B., C.M., Scotland. Thesis, "A recent Epidemic of Smallpox, with some remarks on Re-Vaccination."
1893 [1] Gemmell, William, M.B., C.M., Scotland. Thesis, "On the Treatment of Phthisis by a long Sea Voyage in a sailing ship."
1893 [1] Watson, William, M.B., C.M., Scotland. Thesis, "The Prevention and Treatment of Diphtheria."
1894 [1] Johnston, John M'Cubbin, M.A., M.B., C.M., Scotland. Thesis, "The Prognosis of Acute Lobar Pneumonia in the Pauper Class."
1894 [2] Jack, William Robert, B.Sc., M.B., C.M., Scotland. Thesis, "Observations on the Analysis of Voluntary Muscular Movements by certain new Instruments."
1895 [1] Abercrombie, Peter Henderson, M.B., C.M., Scotland. Thesis, "Turbinotomy in Nasal Stenosis: Analysis and Notes of 66 cases."

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[1] Commended for Thesis. [2] With Honours.

1895 ² Monro, Thomas Kirkpatrick, M.A., M.B., C.M., Scotland. Thesis, "Essays in Neurology: Historical and Clinical."

1895 ¹ Banks, Charles, M.B., C.M., Scotland. Thesis, "Observations on Epidemics of Cholera in India with special reference to their immediate connection with pilgrimages."

1895 ¹ Bell, Andrew Lees, M.B., C.M., Scotland. Thesis, "The Influence of a previous sire, and its relation to maternal impressions."

1895 ¹ Campbell, Finlay Stewart, M.B., C.M., Scotland. Thesis, "Paroxysmal Haemoglobinuria: its treatment with special reference to the arrest of the Paroxysm by Quinine."

1895 ¹ Charles, John, M.B., C.M., Scotland. Thesis, "A contribution to the Meteorology of Sporadic Pneumonia."

1895 ¹ Macgregor, John, M.B., C.M., Scotland. Thesis, "On Paralyses following Diphtheria in Children."

1895 ¹ Edington, George Henry, M.B., C.M., Scotland. Thesis, "Bile Salts (Glycocholate and Taurocholate Soda) in relation to excretion of Urea, etc."

1895 ¹ Hughes, Arthur Davies, M.B., C.M., Wales. Thesis, "Ankylostomiasis."

1895 ¹ Marr, Hamilton Clelland, M.B., C.M., Scotland. Thesis, "On Myxoedema and the Functions of the Thyroid Gland: with notes on the treatment of certain cases of Insanity by Thyroid preparations."

1896 ¹ Marshall, Robert James, M.B., C.M., Scotland. Thesis, "The mild Malaria Fevers and their Microbe."

1896 ¹ Dittmar, Frederick, M.A., M.B., C.M., Scotland. Thesis, "Scarlatinal Albuminuria."

1896 ¹ Gray, Albert Alexander, M.B., C.M., Scotland. Thesis, "An Investigation into some of the Principles of Auscultation."

1896 ¹ Nisbet, Adam Thomson, M.B., C.M., Scotland. Thesis, "Observations on some cases of Liver Abscess."

1896 ¹ Todd, James, M.B., C.M., Scotland. Thesis, "Puerperal Scarlatina."

1896 ² Kennedy, Robert, M.A., B.Sc., M.B., C.M., Scotland. Thesis, "Studies on the Regeneration of Nerves."

1896 ¹ Kirkland, Thomas Speirs, M.B., C.M., Scotland. Thesis, "Quinine Amaurosis."

1897 ¹ Don, William Walton, M.B., C.M., England. Thesis, "Thyroid Therapeutics."

1897 ¹ Hunter, Walter King, B.Sc., M.B., C.M., Scotland. Thesis, "A contribution to the Etiology of Beri-Beri."

1897 ¹ Thomson, James, M.B., C.M., Scotland. Thesis, "Exophthalmic Goitre, with special reference to its treatment by Thymus Gland."
on some Enteric Fever Epidemics."

1897 ² Thomson, Robert Stevenson, B.Sc., M.B., C.M., Scotland. Thesis, "Pertussal Glucosuria, with observations on the reduction of Fehling's solution by the urine in childhood."

1897 ¹ Brownlee, John, M.A., M.B., C.M., Scotland. Thesis, "The Diagnosis and Hospital Administration of Scarlatina."

1897 ¹ Galloway, Andrew Fleming, M.B., C.M., Scotland. Thesis, "Movable Kidney: its Aetiology and Symptoms."

1897 ¹ Harris, David Fraser, B.Sc., M.B., C.M., Scotland. Thesis, "A Research into the Spectroscopy of Blood-pigment, and its derivatives in health and disease."

1897 ¹ Seright, William, M.B., C.M., Scotland. Thesis, "Neurasthenia (nervous exhaustion): a review of the origin and growth of the term, frequency of the disease, and of its chief forms and classifications, symptoms, diagnosis, prognosis, theories, and treatment."

¹ Commended for Thesis. ² With Honours.
³ Gained a Bellahouston Gold Medal.

1897 [1] Temple, Lewis Dunbar, M.B., C.M., Scotland. Thesis, "Sporadic Cretinism and allied disorders."

1897 [1] Wylie, Richard John, M.B., C.M., Scotland. Thesis, "Pneumonia, with notes on twenty-nine cases."

1898 [1] M'Kenzie, Daniel, M.B., C.M., Scotland. Thesis, "Endemic Goitre, with particular reference to its occurrence in Lanarkshire, and to its Etiology."

1898 [1] Bell, Robert Gordon, M.B., C.M., Scotland. Thesis, "Enteric Studies, chiefly in Aberrant Types."

1898 [2,3] Findlay, John Wainmann, M.B., C.M., Scotland. Thesis, "The Choroid Plexuses of the Lateral Ventricles, their Anatomy, Functions, and Pathology (in relation specially to Insanity)."

1898 [1] Wilson, James Dunlop Octavus, M.B., C.M., Scotland. Thesis, "Adenoid Vegetations in the Nasopharynx; a Clinical and Pathological Study of 214 Cases."

1898 [1] Biernacki, John Thomson, M.B., C.M., India. Thesis, "Secondary Microbic Invasion occurring in the course of the Commoner Fevers."

1898 [1] Thomson, Henry Hyslop, M.B., C.M., Scotland. Thesis, "Epilepsy: a theory as to its probable cause, with some remarks regarding its relation to Insanity and Hysteria."

1898 [1] Webster, Alfred, M.B., C.M., England. Thesis, "Cardiac Inhibition in relation to Cerebral Anæmia and Epileptiform Crises."

1899 [1] Marshall, Campbell Samson, M.B., C.M., Scotland. Thesis, "Antistreptococcus Serum; its application in the treatment of Scarlatina Anginosa."

1899 [1] Primrose, Edward James, M.A., M.B., C.M., Scotland. Thesis, "Notes on the Method and on the Diagnostic Value of the Serum Reaction (Widal's Test) in Enteric Fever; with a record of 149 examinations of Serum made in 57 cases of Enteric Fever, and in 22 other cases."

1899 [2,3] Hawthorne, Charles Oliver, M.B., C.M., England. Thesis, "Studies in Clinical Medicine."

1899 [1] Blair, David, M.A., M.B., C.M., Scotland. Thesis, "Acromegaly with Insanity."

1899 [1] Gordon, John, M.B., C.M., Scotland. Thesis, "Tuberculin: as a remedy for Lupus, and its position as a Therapeutic Agent in the treatment of Phthisis Pulmonalis."

1899 [1] Kerr, Hugh, M.A., M.B., C.M., Scotland. Thesis, "Recurrent Insanity."

1899 [1] Scott, Robert, M.B., C.M., Australia. Thesis, "A review of Hydatid Disease in Australasia during the decennial period 1888-97."

1899 [2,3] M'Kendrick, John Souttar, M.B., C.M., Scotland. Thesis, "Zymolysis of Tissue, Physiological and Pathological, with a historical *résumé* of the nature and action of Enzymes."

1899 [2,3] Scobie, William, M.A., B.D., M.B., C.M., Scotland. Thesis, "The agglutinating reaction in Enteric Fever, with special reference to Prognosis."

1899 [1] Gray, John Gilchrist, M.B., C.M., Scotland. Thesis, "Albuminuria and Nephritis occurring in connection with Scarlet Fever in combination with Varicella, the Varicella occurring during the acute stage or during the period of convalescence."

1899 [1] Macharg, William Edgar, M.B., C.M., Scotland. Thesis, "An analytical account of fifty-seven cases of Puerperal Infection."

1899 [1] Ormond, James Service, M.B., Ch.B., Australia. Thesis, "Some results of treatment as illustrated by the Sphygmograph."

1900 [2,3] James Fairlie Gemmill, M.A., M.B., C.M., Scotland. Thesis, "A Teratological Study."

1900 [1] James Adam, M.A., M.B., C.M., Scotland. Thesis, "Remarks on the nature and treatment of Asthma."

---

[1] Commended for Thesis. [2] With Honours.
[3] Gained a Bellahouston Gold Medal.

1900 ¹ William Carrick Allan, M.B., C.M., Scotland. Thesis, "Extra-Uterine Pregnancy."

1900 ¹ John Laird Yuill, M.B., C.M., Scotland. Thesis, "On the Mental Deterioration in Epilepsy and Hemiplegia."

1900 ¹ Leslie Buchanan, M.B., C.M., Ireland. Thesis, "Cyclitis: a Study of the inflammatory exudates into the vitreous body in cases of Cyclitis."

1900 ¹ Malcolm Alexander M'Intyre Sinclair, M.B., C.M., England. Thesis, "A Study in Aphasia, with special reference to some of its transitory manifestations."

1900 ¹ Annie Louise M'Ilroy, M.B., Ch.B., Ireland. Thesis, "Tubal Gestation: its pathology and diagnosis, as illustrated by the record of twenty-two cases."

1901 ¹ Alfred George Newell, M.B., C.M., India. Thesis, "Insanitary Areas and Houses in Bombay and their relation to Plague, with schemes for improvement of Areas."

## BACHELORS OF MEDICINE (M.B.), Honours.

| | | | | | |
|---|---|---|---|---|---|
| 866 | Robert W. Forrest, | Scotland. | 1883 | John Innes Dunlop, | Scotland. |
| ,, | Henry T. Pringle, | ,, | 1884 | Charles O. Hawthorne, | England. |
| 867 | Ebenezer Duncan, | ,, | 1886 | Alexander Bryce, | Scotland. |
| ,, | Joseph Coats, | ,, | ,, | Wm. Snodgrass, M.A., | U.S.A. |
| ,, | James Finlayson, | ,, | ,, | John H. Carslaw, M.A., | Scotland. |
| 868 | Thomas Barr, | ,, | 1887 | William MacLennan, | ,, |
| ,, | William MacLachlan, | ,, | 1890 | Hugh Galt, | ,, |
| ,, | Angus Macmillan, | ,, | ,, | Robert Currie Robertson, M.A., | ,, |
| 869 | James Coats, | ,, | 1892 | John Morton, | ,, |
| 871 | David Wilkie, | ,, | ,, | James Carslaw, M.A., | ,, |
| ,, | John Aitken, | ,, | 1894 | Alexander MacLennan, | ,, |
| 872 | John D. Macdonald, | ,, | ,, | Wm. Stewart Cook, B.Sc., | ,, |
| ,, | Samson Gemmell, | ,, | ,, | Jas. C. Robertson, M.A., B.Sc., | ,, |
| 876 | Geo. S. Middleton, M.A., | ,, | ,, | Jas. Murray Young, | ,, |
| , | Richard B. Macpherson, | ,, | ,, | John Francis Robt. Gairdner, | ,, |
| 877 | Johan B. Knobel, | Africa. | ,, | John Wainman Findlay, | ,, |
| , | Donald Macphail, | Scotland. | 1895 | Joshua Ferguson, M.A., | ,, |
| , | John Carlyle Johnstone, | ,, | ,, | Henry Alex. Pattullo, | ,, |
| , | Edward D. M. Mackellar, | ,, | ,, | Ernest Alex. Walker, M.A., | ,, |
| 78 | Alexander Fraser, | ,, | 1896 | John Knight, | ,, |
| , | James Morton, | ,, | ,, | Madge Speirs Maclean, | ,, |
| , | William Partington, | ,, | 1897 | John A. C. Macewen, B.Sc., | ,, |
| , | Lawrence A. Waddell, | ,, | ,, | Thomas Hunter, M.A., B.Sc., | ,, |
| 79 | William K. Peden, | ,, | 1898 | Wm. Kilpatrick Hutton, M.A., | ,, |
| , | Ralph D. Stevenson, | Australia. | ,, | Robert Fullarton, M.A., | ,, |
| 80 | Andw. A. Hogarth, M.A., | Scotland. | ,, | William Webster, | ,, |
| | J. M'Gregor-Robertson, M.A., | ,, | 1899 | Alex. Laurie Watson, M.A., | ,, |
| | John Lindsay Steven, | ,, | 1900 | Charles Campbell Cuthbert, M.A. | ,, |
| 81 | John More Young, M.A., | ,, | ,, | James Dunlop Lickley, | England. |
| 82 | Robert Beith, | ,, | | | |

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¹ Commended for Thesis.

## BRUNTON MEMORIAL PRIZE OF £10,

*Awarded to the most distinguished Graduate in Medicine of the year.*

1880. John Lindsay Steven, M.B., C.M.
1881. John More Young, M.A., M.B., C.M.
1882. Robert Beith, M.B., C.M.
1883. John Innes Dunlop, M.B., C.M.
1884. Charles Oliver Hawthorne, M.B., C.M.
1885. Andrew Wilson, M.B., C.M.
1886. Alexander Bryce, M.B., C.M.
1887. William MacLennan, M.B., C.M.
1888. Landel Rose Oswald, M.B., C.M.
1889. William Robert Jack, B.Sc., M.B., C.M.
1890. George Lamb, M.B., C.M.
1891. Hugh Galt, M.B., C.M.
1892. John Morton, M.B., C.M.
1893. John Johnson Urwin, M.B., C.M.
1894. Alexander MacLennan, M.B., C.M.
1895. Joshua Ferguson, M.A., M.B., C.M.
1896. John Knight, M.B., C.M.
1897. John Allan Craigie Macewen, B.Sc., M.B., C.M. } Equal.
,, Thomas Hunter, M.A., B.Sc., M.B., Ch.B. }
1898. William Kilpatrick Hutton, M.A., M.B., C.M.
1899. Alex. Laurie Watson, M.A., M.B., Ch.B.
1900. Charles C. Cuthbert, M.A., M.B., Ch.B.

## THOMAS LOGAN MEDAL AND PRIZE,

*Awarded to the most distinguished Graduate in Arts of the year.*

1888. Ernest Findlay Scott, M.A.
1889. Alfred Ernest Garvie, M.A.
1890. John Edgar M'Fadyen, M.A.
1891. James Holm, M.A.
1892. Daniel Lamont, M.A.
1893. Gilchrist Gibb Alexander, M.A.
1894. Henry Noel Brailsford, M.A.
1895. William King Gillies, M.A.
1896. George Donald Valentine, M.A.
1897. Gavin Scott, M.A.
1898. John Lyle Morison, M.A.
1899. John Lochhead, M.A.
1900. Mabel Atkinson, M.A.

## *XI.—DEGREE AND PRIZE LIST.*

# LIST OF DEGREES

Conferred in the various Faculties and of Prizes and Certificates of Honour Awarded in the several Classes of the University during the year ending 1st May, 1901.

### DOCTORS OF DIVINITY (D.D.)

*April*, 1901.

Rev. William Henderson Carslaw, M.A., Senior Minister of Park United Free Church, Helensburgh.

Rev. Robert James Drummond, M.A., B.D., Minister of Lothian Road United Free Church, Edinburgh.

Rev. George Green Gillan, M.A., Minister of the Parish of [illegible].

Rev. Peter Hately Waddell, M.A., B.D., Minister of the Parish of Whitekirk and Tyningham, Haddingtonshire.

### DOCTORS OF LAWS (LL.D.)

*April*, 1901.

Andrew Cecil Bradley, M.A., formerly Professor of English Language and Literature in the University of Glasgow.

Edwin Cannan, M.A., Dean of the Faculty of Economics and Political Science in the University of London.

Charles Scott Dickson, M.A., K.C., M.P., Advocate, Solicitor-General for Scotland.

Rev. David Landsborough, Minister of Henderson United Free Church, Kilmarnock.

Theophilus Goldridge Pinches, Department of Assyrian and Egyptian Antiquities, British Museum, London.

Arthur William Rücker, M.A., D.Sc., F.R.S., Professor of Physics, Royal College of Science, London, and Secretary of the Royal Society.

Joseph Macintyre Taylor, Writer, Dean of the Faculty of Procurators, Glasgow.

### BACHELORS OF DIVINITY (B.D.).

*November*, 1900.—William Scott, M.A.

*April*, 1901.

James William Baird, M.A.
Charles Hill Dick, M.A.
Fergus Ferguson, M.A.
James Francis, M.A.
Hector William Mackay, M.A.
John Miller, M.A.
Angus John Morrison, M.A.
James Walker, M.A.
Horace Fenton Wallace, M.A.
James Wishart, M.A.

### BACHELORS OF LAWS (LL.B.).

*November*, 1900.

Francis Montague Cockburn, M.A.
John Liddell, M.A.
Thomas Martin, M.A.

*April*, 1901.

John Girvan, M.A.[1]
William Grierson Macalister, M.A.[1]
William Philips, M.A.[1]
William Pringle, M.A.
William Mather Rutherford Pringle, M.A.
Walter Ross Taylor, M.A.
Thomas Grieve Wright, M.A.[1]

## BACHELORS OF LAW (B.L.).

*November*, 1900.

Henry Stuart Girvan.
William Stewart, M.A.

*April*, 1901.

John Stuart Leishman, M.A., B.D.
Donald Mackay.
Charles Ross, B.A.

## DOCTORS OF MEDICINE (M.D.).

*July*, 1900.

### I. With Honours.

James Fairlie Gemmill, M.A., M.B., C.M., Scotland. Thesis, "A Teratological Study."

### II. With Commendation.

James Adam, M.A., M.B., C.M., Scotland. Thesis, "Remarks on the Nature and Treatment of Asthma."

William Carrick Allan, M.B., C.M., Scotland. Thesis, "Extra-Uterine Pregnancy."

John Laird Yuill, M.B., C.M., Scotland. Thesis, "On the Mental Deterioration in Epilepsy and Hemiplegia."

### III. Ordinary Degree.

Robert Buttercase, M.B., C.M., Scotland. Thesis, "Appendicitis, with Cases."

*November*, 1900.

### I. With Commendation.

Leslie Buchanan, M.B., C.M., Ireland. Thesis, "Cyclitis: a Study of the inflammatory exudates into the vitreous body in cases of Cyclitis."

Annie Louise M'Ilroy, M.B., Ch.B., Ireland. Thesis, "Tubal Gestation: its pathology and diagnosis, as illustrated by the record of twenty-two cases."

Malcolm Alexander M'Intyre Sinclair, M.B., C.M., England. Thesis, "A Study in Aphasia, with special reference to some of its transitory manifestations."

### II. Ordinary Degree.

Thompson Campbell, M.B., C.M., Scotland. Thesis, "The Sanatorium Treatment of Pulmonary Tuberculosis, with the records of several cases, and the results of a year's work at the Consumption Sanatorium, Bridge of Weir."

Joseph Adam Clarke, M.B., Ch.B., Scotland. Thesis, "A Study of Acute Lobar Pneumonia."

Archibald Fairlie, M.A., M.B., C.M., Scotland. Thesis, "Clinical Observations on Enteric Fever, with notes and impressions of a personal attack."

James Reid Foulds, M.B., C.M., Scotland. Thesis, "Puerperal Fever: its source, prophylaxis, and treatment, with cases."

William Tweed Hannah, M.B., C.M., Scotland. Thesis, "A Clinical Study of Ostea-Arthritis."

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[1] With Distinction.

Robert Campbell Highet, M.B., C.M., Scotland. Thesis, "Blackwater Fever, with notes of a case, and observations on the etiology of the disease."

William Llewellyn Jones, M.B., C.M., Wales. Thesis, "The Dyspepsia of Breast Babies, with special reference to its Feeding."

Duncan Sinclair Kennedy, M.B., C.M., Scotland. Thesis, "Tuberculosis in Man and the Lower Animals."

Marion Jamieson Ross, M.B., Ch.B., Scotland. Thesis, "The Sensory Phenomena associated with Hemiplegia."

*April*, 1901.

I. With Commendation.

Alfred George Newell, M.B., C.M., India. Thesis, "Insanitary Areas and Houses in Bombay and their Relation to Plague, with Schemes for Improvement of Areas."

II. Ordinary Degree.

Ursula Chaplin, M.B., C.M., England. Thesis, "The Vermiform Appendix: Histology and Morbid Anatomy."

George Mervyn Sydenham, M.B., C.M., England. Thesis, "Notes on Cases of Scarlet Fever."

## BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B., C.M.).

*July*, 1900.

| | | | |
|---|---|---|---|
| John Lunn, | Scotland. | James Wallace Shane, | Ireland. |
| Alexander M'Donald Nevin, | Ireland. | Archibald Stevenson, | Scotland. |
| John James Robertson, | England. | | |

*November*, 1900.—Peter Skinner Clark, Scotland.

## BACHELORS OF MEDICINE AND BACHELORS OF SURGERY (M.B., Ch.B.).

*July*, 1900.

I. Honours.

Charles Campbell Cuthbert, M.A., Scotland.[1]

II. Commendation.

| | | | |
|---|---|---|---|
| Anderson Gray M'Kendrick, | Scotland. | Alfred Robert M'Larkin, | Scotland. |
| Leonard Findlay, | ,, | James Freeborn Bennett, | ,, |
| Alexander Wilson, | ,, | Andrew Mair, | ,, |
| Edgar William Sharp, | England. | William Barr Inglis Pollock, | ,, |

III. Ordinary Degrees.

| | | | |
|---|---|---|---|
| Matthew Aikman, M.A., | Scotland. | Daisy Annabella Murdoch Clark, B.Sc., | Scotland. |
| George Arthur, | ,, | | |
| Gavin Barbour, | ,, | John Thomson Clark, | ,, |
| Thomas Thomson Bathgate, | ,, | Robert Clark, | ,, |
| Alexander Binning, | ,, | Archibald William Wallace Davidson, | ,, |
| Alexander Birch, | ,, | | |
| Harry Egerton Brown, | ,, | Frank Lindsay Dickson, | India. |
| John Douglas Brownlie, | ,, | David Curr Douglas, | Scotland. |
| Thomas Carruthers, M.A., | ,, | John Pinkerton Duncan, B.Sc. | ,, |
| Alexander Henderson Cassells, | ,, | Alexander Fraser, M.A., | ,, |
| Edward Provan Cathcart, | ,, | Lizzie Thomson Fraser, | ,, |

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[1] Mr. Cuthbert gains the Brunton Memorial Prize of Ten Pounds awarded to the most distinguished Graduate in Medicine of the year.

| | |
|---|---|
| Gilbert Garrey, | Scotland. |
| William Gibson, | ,, |
| Edward Gillespie, | ,, |
| William Girvan, | ,, |
| Helen Mary Gordon, | England. |
| Charles Aikman Gourlay, M.A., | Scotland. |
| John Gracie, | ,, |
| Charles Herbert Gunson, | ,, |
| Archibald Wilson Harrington, | ,, |
| Isaac Mackay Huey, | Ireland. |
| Thomas Inglis, | Scotland. |
| Pierce Jones, | Wales. |
| William Bryce Kerr, | Scotland. |
| James Dickson Laidlaw, | ,, |
| John Francis Lambie, | ,, |
| Norman Maclean Leys, | England. |
| Mary Forbes Liston, | India. |
| John Lockhart, | Scotland. |
| Alexander Logan, | ,, |
| David Longwill, | ,, |
| James Mackinnon, | ,, |
| George Todd Maclean, M.A., | ,, |
| Burgess M'Phee, | ,, |
| Robert MacNab Marshall, | ,, |
| Allan Martin, M.A., B.Sc., | ,, |

| | |
|---|---|
| James Millar, M.A., | Scotland. |
| Ernest Wardlaw Milne, | ,, |
| Alexander Robert Moir, | ,, |
| Alexander Munro, | ,, |
| Robert Rennie, | ,, |
| John Duncan Richmond, | ,, |
| Margaret Mitchell Ritchie, | ,, |
| David Russell, | ,, |
| James Scott, M.A., | ,, |
| James Shearer, | ,, |
| David Ap Simon | Wales. |
| Christian Cleland Wood Smith, | Scotland. |
| James Johnston Smith, | ,, |
| John Steele Smith, | ,, |
| Andrew Stewart, | ,, |
| Gertrude Florence Fleetwood Taylor, | England. |
| Robert Taylor, | Scotland. |
| Thomas Bird Tierney, | ,, |
| James Cameron Turnbull, | ,, |
| William Dinning Walker, | ,, |
| George White, | ,, |
| Morgan Watkin Williams, | Wales. |
| Thomas Watson Wilson, | Scotland. |
| Hugh Patrick Wright, | ,, |

*November*, 1900.

### I. WITH HONOURS.

James Dunlop Lickley.

### II. ORDINARY DEGREES.

| | |
|---|---|
| William Adam Burns, | Scotland. |
| Gertrude Jane Campbell, | ,, |
| Charles Peter Garvie Crichton, | ,, |
| John Downie, | ,, |
| Matthew William Fraser, | ,, |
| Lila Stephenson Greig, | ,, |
| James Macpherson Henry, | ,, |
| Charles Milburn Hope, | England. |
| Alexander King, | Scotland. |
| Alexander Leitch, | ,, |
| Donald M'Farlane Livingston, | ,, |
| David Dale Logan, | ,, |

| | |
|---|---|
| Alexander MacCulloch, | Scotland. |
| George Steventon M'Kinnon, | ,, |
| Duncan Mackenzie MacRae, M.A., | ,, |
| Jean Marion Farie Marshall, | ,, |
| Peter Moir, | ,, |
| Daniel Morrison, | ,, |
| Thomas Neill, | ,, |
| Agnes Brymner Sinclair, | ,, |
| Mabel Talbot, | England. |
| Robert Bryers Thom, | Scotland. |
| John Young (Glasgow), | ,, |

*February*, 1901.

David George Somerville Gartshore, Scotland.

## DOCTORS OF SCIENCE (D.Sc.).

*April*, 1901.

Thomas Gray, B.Sc., Ph.D.
Walter King Hunter, B.Sc., M.D., C.M.
Adam Brown Kelly, B.Sc., M.B., C.M.
Robert Stevenson Thomson, B.Sc., M.D., C.M.
James Sim Wallace, B.Sc., M.D., C.M.

## BACHELORS OF SCIENCE (B.Sc.).

*July*, 1900.

*In Engineering.*

John Natesawmi Doss.

*November*, 1900.

*In Pure Science.*

William Boyd, M.A.
Joseph White, M.A.[1]

*In Engineering.*

James Aitchison.
William Henry Ballantyne.

*April*, 1901.

*In Pure Science.*

James Miller Clark, M.A.[3]
Ivy M'Kenzie, M.A.
James Alex. Russell Henderson.
Alexander Mathieson, M.A.
Alexander Wood.[2]

*In Engineering.*

James Craig.
Carolus Marie.
John Francis Henderson.
George Macmillan Young.

## CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

*July*, 1900.

John Natesawmi Doss.

*April*, 1901.

James Craig.
Carolus Marie.
John Francis Henderson.
George Macmillan Young.

## MASTERS OF ARTS (M.A.).

*November*, 1900.

### I. With Honours.

*With First-Class Honours in Mental Philosophy.*

James Johnston. Alexander Borthwick Mackay. Alexander Montgomery.

*With First-Class Honours in Mathematics and Natural Philosophy.*

David Gladstone Taylor.

*With First-Class Honours in English.*

Margaret Lindsay Anderson.

*With Second-Class Honours in Mental Philosophy.*

Peter George Smith.

*With Second-Class Honours in Mathematics and Natural Philosophy.*

John Charles Mann.
Roderick Macdonald Nicol.

*With Third-Class Honours in Mathematics and Natural Philosophy.*

James Miller Clark.

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[1] With Special Distinction in Mathematics and Natural Philosophy.
[2] With Special Distinction in Electricity—Pure and Applied.
[3] With Special Distinction in Astronomy.

### II. Ordinary Degree.

Thomas Alexander.
John Thomas Arnott.
Peter Beith.
John Brash.
George Buik.
David Graham Cadenhead.
Peter Carrick.
Alexander Cunningham.
Robert Douglas.
Walter Duffy.
Samuel Crawford Blair Edgar.
John James Elliot.
Thomas Jones.
Maurice John King.
John Duncan M'Callum.
Walter George Macdonald.
Donald M'Farlan.
Elizabeth Rankin M'Lean.
David James M'Leish.
William Macnab.
George Smith Millar.
Norman John Morison.
Kate Morrison.
Mabel King Pickering.
John Marshall Pryde.
Jessie Deans Rankin.
John Reid.
Berkeley Hope Robertson.
Howard Hope Robertson.
William Robertson.
James Watson Runciman.
John Shearer (Glasgow).
Robert Walter Rogerson Shearer.
George John Spreull.
James Steel.
Alexander Strachan.
William Stratton.
Arthur William Sutherland.
Arthur Penrhyn Stanley Tulloch.
John Weir.
William Reid Wiseman.
John Cameron Young, M.B., C.M.

## *April*, 1901.

### I. With Honours.

*With First-Class Honours in Classics.*

James Ferguson Dyer.
Peter Hately Waddell.

*With First-Class Honours in Mathematics and Natural Philosophy.*

Francis Purser Holbrooke Stirling.

*With First-Class Honours in English.*—Hugh Watt.

*With First-Class Honours in Modern Languages.*—Marion King Binnie.

*With Second-Class Honours in Classics.*

William Henderson Buchan.
Owen Lloyd Jones.
Thomas Robert M'Murtrie.
Alexander Russell.

*With Second-Class Honours in Mathematics and Natural Philosophy.*

Andrew M'Kerral.

*With Third-Class Honours in Classics.*—Arthur Scott Hutchison.

### II. Ordinary Degree.

Thomas Armstrong.
James Austin.
Alexander Borland.
Mary Russell Boyd.
Margaret Blackley Brechin.
William Brown (Fauldhouse).
Sarah M'Allister Burt.
Andrew Campbell.
Daniel Kirkwood Campbell.
David Gordon Carmichael.
George Carstairs.
David Keir Chalmers.
Humphrey Chalmers.
John Cairns Christie.
James Cosh.
Hamilton Crawford.
Neil Donald Darroch.
Robert Scott Dewar.
Charles Milligan Drew.
John Drury.
Alexander Slater Dunlop.
Archibald Barbour Finlay.
Archibald Fleming.
Angus Peter Fletcher.

Augustine Wentworth Scudamore Forbes.
William Lamb Fordyce.
**Isabella Milligan Fraser.**
John Frew.
Daniel Gillies.
John M'Farlane Hamilton.
John M'Dougall Hay.
Andrew Henderson.
Walter Lewis Henderson.
Margaret M'Kinnon Hendrie.
Catherine Carruth Hogarth.
David Guthrie Hunter.
David M'Cowan Hutchison.
Robert Irvine.
William James Jamieson.
Thomas Jeffrey.
David Robert Mackenzie Keir.
John Laing Kinloch.
James Lindsay.
William Lindsay.
Margaret Alexander Lochhead.
Thomas Low.
Malcolm MacAlister.
David Paterson M'Donald.
William Elder MacDonald.
Hugh M'Farlane.
George Alexander MacGregor.
Joseph MacInnes.
James MacKail.
Alexander Mackenzie.
Grace Alice Mackinnon.
John M'Michael.
**Margaret Carson M'Millan.**
John Allan Martin.
Francis Middlemass.
Robert Milne.
Robert Kerr Milne.
Peter Mitchell.
Christian Pettigrew Home Morton.
Robert Naismith.
John Edgar Sugden Otty.
Thomas Paterson (Blantyre).
Thomas Ure Paterson.
Thomas Peebles.
Walter Amos Pawson.
John Macdonald Richardson.
John Riddell.
Thomas Rook.
Robert Scott (Glasgow).
George Sharp.
Alexander Shaw.
John Seaton Smith.
John Ryrie Spence.
Henry Taylor.
Alexander Dunbar Thomson.
David Alexander Thomson.
Kate Thomson.
William Young Turner.
William Lind Walker.
Matthew Whiteford.
Jeanie Wilson.
Jessie Reid Wylie.

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## *DEPARTMENTAL CERTIFICATES.*

### I. FOR DEGREE OF B.D.

FIRST DEPARTMENT—*October*, 1900.

Baird, James William, M.A.
Dick, Charles Hill, M.A.
Ferguson, Fergus, M.A.
Francis, James, M.A.
Fulton, William, M.A.
Mackay, Hector William, M.A.
Miller, John, M.A.
Morrison, Angus John, M.A.
Scott, William, M.A.
Walker, James, M.A.

SECOND DEPARTMENT—*April*, 1901.

Baird, James William, M.A.
Dick, Charles Hill, M.A.
Ferguson, Fergus, M.A.
Francis, James, M.A.
Mackay, Hector William, M.A.
Miller, John, M.A.
Morrison, Angus John, M.A.
Selkirk, William Alex. Rattray, M.A.
Walker, James, M.A.
Wallace, Horace Fenton, M.A.
Wishart, James, M.A.

## II. FOR DEGREES IN LAW.

### OLD REGULATIONS.

### I. For Degree of LL.B.

IN CONVEYANCING.

*October*, 1900.—Liddell, John, M.A.

### II. For Degree of B.L.

No pass.

### NEW REGULATIONS.

### I. For Degree of LL.B.

IN JURISPRUDENCE.

*October*, 1900.

Arroll, Walter, M.A.
Martin, Thomas, M.A.
Middleton, John, M.A.
Smith, Ernest Gardiner, M.A.

*April*, 1901.

Brown, Hugh, M.A.
Girvan, John, M.A.
Macalister, William Grierson, M.A.
Taylor, Walter Ross, M.A.
Wright, Thomas Grieve, M.A.
Young, Peter Taylor, M.A.

IN PUBLIC INTERNATIONAL LAW.

*October*, 1900.

Arroll, Walter, M.A.
Pringle, William, M.A.

*April*, 1901.

Donald, Thomas Walter, M.A.
Girvan, John, M.A.
M'Kay, John Dewar, M.A.
Osborne, George Edward Bell, M.A.
Taylor, Walter Ross, M.A.
Valentine, George Donald, M.A.
Wright, Thomas Grieve, M.A.
Young, Peter Taylor, M.A.

IN CIVIL LAW.

*October*, 1900.

Anderson, Norman Carrick, M.A.
Pringle, William, M.A.
Valentine, George Donald, M.A.

*April*, 1901.

Mitchell, Edward Rosslyn, M.A.
Smith, David Baird, M.A.

IN LAW OF SCOTLAND.

*October*, 1900.

Anderson, Norman Carrick, M.A.
M'Donald, Alexander, M.A.
Middleton, John, M.A.
Pringle, William, M.A.
Valentine, George Donald, M.A.

*April*, 1901.

Gillan, William Woodburn, M.A.
Hodge, Donald Grant, M.A.
King, Maurice John, M.A.
Smith, David Baird, M.A.
Smith, Ernest Gardiner, M.A.

IN CONSTITUTIONAL LAW AND HISTORY.

*October*, 1900.

Cockburn, Francis Montague, M.A.
M'Donald, Alexander, M.A.

*April*, 1901.

Donald, Thomas Walter, M.A.
Dow, Samuel Hugh, M.A.
Hodge, Donald Grant, M.A.
Macalister, William Grierson, M.A.
Valentine, George Donald, M.A.
Wright, Thomas Grieve, M.A.

IN CONVEYANCING.

*October*, 1900.

Cockburn, Francis Montague, M.A.
Martin, Thomas, M.A.

*April*, 1901.

Anderson, Norman Carrick, M.A.
Brown, Hugh, M.A.
M'Kay, John Dewar, M.A.
Philips, William, M.A.
Taylor, Walter Ross, M.A.

IN MERCANTILE LAW.

*April*, 1901. Buchanan, Hugh Reid, M.A.

IN INTERNATIONAL PRIVATE LAW.

*October*, 1900. Smith, Ernest Gardiner, M.A.

*April*, 1901.

Gillan, William Woodburn, M.A.
Hodge, Donald Grant, M.A.
Osborne, George Edward Bell, M.A.
Smith, David Baird, M.A.

IN FORENSIC MEDICINE.

*April*, 1901.

Anderson, Norman Carrick, M.A.
Buchanan, Hugh Reid, M.A.
Dow, Samuel Hugh, M.A.
King, Maurice John, M.A.
Mitchell, Edward Rosslyn, M.A.
Pringle, William, M.A.
Pringle, William Mather Rutherford, M.A.
Smith, Ernest Gardiner, M.A.

## II. FOR DEGREE OF B.L.

IN LOGIC.

*October*, 1900.—Chalk, George Brisbane.

*April*, 1901.

Ralston, Cosmo Augustus.
Stewart, Archibald.

IN MORAL PHILOSOPHY.

*October*, 1900. Gilmour, Andrew.

*April*, 1901.

Foulis, William Adamson.
Ralston, Cosmo Augustus.
Smith, William France.

IN LATIN.

*October*, 1900.

Chalk, George Brisbane.
Johnston, John Robertson.
Ralston, Cosmo Augustus.

IN CIVIL LAW.

*October*, 1900.

Cowan, William Christie.
Stewart, William, M.A.

*April*, 1901.—Chalmers, John Stuart.

### IN LAW OF SCOTLAND.

*October*, 1900.

Love, John Alexander Anderson.
Ross, Charles, B.A.

*April*, 1901.

Anderson, Harry Angus Paterson, M.A.
Cowan, William Christie.
Johnston, John Robertson.
M'Cutcheon, James White, M.A.

### IN CONVEYANCING.

*October*, 1900.—Girvan, Henry Stuart.

*April*, 1901.

Leishman, John Stuart, M.A., B.D.
Mackay Donald.
Ross, Charles, B.A.

### IN INTERNATIONAL PRIVATE LAW.

*April*, 1901.—Mackay, Donald.

### IN FORENSIC MEDICINE.

*October*, 1900.

Gray, John, M.A.
Love, John Alexander Anderson.

*April*, 1901.

Cowan, William Christie.
Johnston, John Robertson.

## III. FOR DEGREES OF M.B., CH.B.

### FIRST PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (B., Botany; Z., Zoology; P., Physics; C., Chemistry):

*October*, 1900.

Aitken, Andrew Blair (B., P.).
Alexander, Bethia Shanks (Z., C.).
Allan, William Smith (B., Z.).
Allison, Andrew (B., P.).
Anderson, Andrew Woodroffe (B., P.).
Arbuckle, Donald (P.).
Arthur, Robert James (B., Z.).
Bain, John (C.).
Baird, Annie Agnes (B.. Z., P.).
Barr, Hugh (B.).
Barrowman, Allan Robertson (B., P.).
Bisset, Archibald Grainger (B.).
Brown, Charles (P.).
Brown, John (C.).
Caldwell, George Yuille (B.).
Campbell, Roberta (B., Z.).
Carmichael, John Paterson (Z.).
Carrick, Peter (B., Z.).
Carslaw, Robert Buchanan, M.A. (P., C.).
Craig, William Smith (C.).
Dale, Robert Wilson (B., P.).
Dishington, Thomas Thornton Macklin (Z., C.).
Douglas, Allan Campbell (B., P.).
Drew, Charles Milligan (B., Z., C.).
Duffy, Walter (B.).
Dunn, John Shaw (B., P.).
Ferguson, John (B., Z., P., C.).
Fitzgerald, Charles Conway (Z., C.).
Fitzgerald, Edward John (Z., C.).
Fulton, Hugh Harvey (B., P.).
Gilchrist, William (C.).
Gillatt, William Harold (P.).
Glaister, Joseph (B.).
Glover, James (P., C.).
Graham, Alexander (B., P.).
Graham, David Livingstone (B., P.).
Grant, Donald John Gollan (B., P.).
Hardy, Margaret (Z.).
Hay, Alexander Robertson Forrest (B., Z., P.).
Hay, James Waugh (B., Z.).
Henderson, John Cochrane (Z., P., C.).
Hislop, Lawrence (B.).
Howell, Ralph (B., Z.).
Hunter, Alexander (C.).
Hunter, James (B., P.).

Hutchison, Archibald Yuill (B., Z., P., C.).
Hutchison, Harry Stewart (B., P.).
Jamieson, Alexander (B., C.).
Jones, Arnold Ernest (B., P.).
Kerr, Douglas Robertson (B., Z.).
Kerr, James Rutherford (B.).
Kirkwood, George Notman (Z., C.).
Leckie, Robert Wright (C.).
MacAulay, Donald (B., Z., P., C.).
Macaulay, Ernest Bowman (Z., C.).
Macaulay, Thomas Symington (B., P).
M'Cormick, Donald Carmichael (C.).
M'Cutcheon, Joseph Glaister (B., C.).
Macdonald, John Finlay (B.).
M'Dougall, Neil (C.).
M'Ewan, James Boston (C.).
M'Ewan, Tom Duncan (B., P.).
Macfadyen, Duncan (B., P.).
M'Farlane, John (B., P.).
Macfarlane, Robert (B., P.).
Macgregor, Alexander Stuart Murray (B., P.).
M'Intyre, Milne (B., C.).
Mackay, Charles Gordon (B., C.).
M'Leish, David James (B., Z., P.).
Macleod, Norman Alexander (P.).
Macleod, Roderick (P.).
M'Millan, Alexander Stewart (P.).
M'Murrich, Matthew Thompson Drummond (B., P.).
MacNaughtan, Norman Smith (P., C.).
Macpherson, Richard Cameron (B., C.)
M'Phun, Agnes (B.).
Main, William (P., C.).
Mann, Florence (B., Z.).
Marshall, James (Z., C.).
Martin, William Blair Morton (B., P.).
Meek, Andrew (B., P.).
Moffatt, John (P., C.).
Moore, William Struthers (Z., C.).
Muir, Gavin Denholm (P.).
Muir, John (Z., C.).
Munro, Jessie Emily (P.).
Munro, Macdonald (B.).
Murray, Frank Anderson (B.).
Nielson, George Clement (B., P.).
Orr, Thomas (B., Z., P.).
Oversby, Edith (Z.).
Patrick, Howard Henderson (B., P.).
Paxton, Arthur Geoghegan (Z., C.).
Pearson, John (B., P.).
Pickup, John Clegg (B., Z.).
Pollock, Andrew Maclean (B., P.).
Ranken, Henry Sherwood (B., P.).
Rankin, Jessie Deans (B., Z.).
Reid, Donald Ronald (B., P.).
Reid, Harriet Rowland Louise (P., C.).
Riddell, Daniel Falconer, M.A. (Z., C.)
Richmond, David Stevenson (P., C.).
Richmond, James Watson (C.).
Robertson, Alexander (B., P.).
Robertson, Berkeley Hope (C.).
Robertson, Margaret Eason (B., Z.).
Rolland, William (B., P.).
Ross, John Macdonald (P., C.).
Shaw, Jane Reid (B., Z.).
Sieger, Edward Louis (P.).
Simpson, Robert Wilfrid (B., Z.).
Sinclair, Alexander Hunter (Z.).
Smellie, Lily (Z.).
Smith, Morrison Wood (B., P.).
Somerville, James Alexander (Z.).
Spence, Mary (B., Z.).
Stevenson, James (P.).
Stewart, Archibald (B.).
Stewart, William (Z.).
Stewart, William Craig (C.).
Templeton, William (Z., C.).
Thomson, James White (B., P.).
Watson, Alexander M'Millan (P.).
Watt, Thomas Macknight (C.).
West, Archibald Crombie (B., P.).
Wilson, David Watson (P.).

*April*, 1901.

Alexander, Bethia Shanks (B.).
Allan, William (P.).
Allan, William Smith (P., C.).
Allison, Andrew (Z., C.).
Anderson, George Victor (B., Z.).
Arbuckle, Donald (B., Z., C.).
Arnott, Andrew Hamilton (B., Z.).
Baird, James Henderson (Z., C.).
Barbour, Thomas (B., Z.).
Barr, Hugh (Z., P., C.).
Beaton, George Duncan Morrison (Z., C.).
Beattie, George (B.).
Bell, Robert Daniels, M.A. (B., P.).
Bosworth, John Charles (Z.).
Bowie, Thomas Fraser (C.).
Brechin, Forrest (B., P.).
Brown, Charles (B.).
Burns, Charles (B., P.).
Caldwell, George Yuille (P.).
Carmichael, Donald Livingstone (Z.).
Carslaw, Robert Buchanan, M.A. (B., Z.).
Clark, Donald (Z., C.).

Clark, Jeannie Thomson (P., C.).
Cowan, Andrew Donaldson (Z., C.).
Dale, Robert Wilson (Z., C.).
Driscoll, Richard John (Z., C.).
Dyke, Eric John (Z.).
Dyke, Hamilton William (Z., C.).
Fairley, James (Z., C.).
Fairlie, Harry Prescot (Z., C.).
Ferguson, Alexander Burns (Z., C.).
Fitzgerald, Edward John (B., P.).
Forrest, Thomas Henderson (Z., C.).
Forrest, Thomas Scott (B., Z.).
Gilchrist, William (B., P.).
Gillatt, William Harold (C.).
Glaister, Joseph (Z., P.).
Grier, William (Z., C.).
Hammond, Charles Francis Dyer (B.).
Hart, James Duncan (Z., C.).
Hauxwell, Frank (Z., C.).
Hay, James Waugh (P., C.).
Hill, Robert M'Cowan (B., Z.).
Hislop, Lawrence (P.).
Howell, Ralph (P.).
Hunter, James (Z., C.).
Hutchison, Harry Stewart (Z., C.).
Jack, William Boyd (Z., C.).
Jamieson, Alexander (P.).
Kirkland, James Towers (B., Z.).
Kirkwood, William Love (Z., C.).
Logan, George Hugh (Z., C.).
Lucas, Katharine Robina Margaret (B.).
M'Cutcheon, Joseph Glaister (P.).
Macdonald, Walter George, M.A. (Z., C.).
M'Ewan, Duncan (Z., C.).
Macewen, Hugh Allan (Z., C.).
Macintyre, John (Z., C.).
M'Intyre, Milne (Z., P.).
Mackay, Charles Gordon (P.).
Mackay, Finlay John (B., Z.).
M'Kay, John Henry (Z., C.).
Mackinnon, Ronald (B., C.).
Maclaren, Norman Henry William (Z.).
M'Leod, Roderick (C.).
Macleod, William (Z.).
M'Murrich, Matthew Thompson Drummond (Z., C.).
MacNaught, Hugh (Z., C.).
M'Phun, Agnes (P.).
M'Vail, Elizabeth Maud (P., C.).
Mann, Florence (P., C.).
Manson, William Hislop (Z.).
May, Robert (Z., C.).
Milligan, Henry Joseph (Z., C.).
Moffatt, John (B.).
Munro, Jessie Emily (C.).
Munro, Macdonald (P., C.).
Murray, Frank Anderson (P.).
O'Hare, Patrick Joseph (Z.).
Pickup, John Clegg (P., C.).
Ranken, Henry Sherwood (Z., C.).
Rankin, Cunison Deans (B., Z., P., C.)
Rankin, Jessie Deans, M.A. (C.).
Rankin, Thomas Thomson (Z., C.).
Reid, John (Z., C.).
Renton, James Mill (Z., C.).
Richmond, James Watson (P.).
Robertson, Arthur (Z., C.).
Ross, John Macdonald (B., Z.).
Russell, Alexander Cappie (Z., C.).
Russell, John Cooper, M.A. (Z.).
Sieger, Edward Louis Augustin (Z., C.).
Sieger, William Herman (B., Z., P., C.)
Simpson, James Charles Donaldson (B.).
Slater, Robert Alexander (B., P.).
Smellie, Lily (B., C.).
Smith, Morrison Wood (C.).
Spence, Mary (P., C.).
Stevenson, James (B., Z.).
Stewart, Arthur Anderson (B., Z.).
Stewart, Daniel (Z.).
Stewart, John (B., P.).
Stuart, William Alexander (Z., C.).
Sutherland, Joseph Roderick (Z., C.).
Taylor, John (B., Z., P., C.).
Thom, Thomas (Z., C.).
Thomlinson, Chrissie Gibson (P., C.).
Townley, Joseph Johnston (P.).
Turner, William Young (P., C.).
Walker, William Lind (C.).
Watson, Alexander M'Millan (C.).
Watt, Thomas Macknight (B., P.).
Wilson, William Alexander (Z.).
Yates, Annie May (B., Z.).
Young, George (Z., C.).

### SECOND PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (A., Anatomy : P., Physiology ; M., Materia Medica and Therapeutics):

*October, 1900.*

Armitage, William (P.).
Baird, Helen Stephen, B.A., (A., P.).
Ballantyne, Thomas (P., M.).
Banks, Alexander Gray (M.).
Baxter, Andrew (P.).
Bell, Andrew Farm (M.).
[illegible], James Campbell (A.).
Bruce, Robert (M.).
Bryson Robert (P.).
Buchan, George Frederick (A.).
Campbell, Angus (M.).
Campbell, Jane (P., M.).
Campbell, Robert Harold (A., M.)
Carruthers, Alex. Adam (A., P., M.).
Cartwright, Robert Peploe (A.).
Chapman, Walter Bartlett (A., M.).
Christie, John Cairns (P., M.).
Cowan, Samuel Campbell (A., P., M.).
Cramb, Ernest Hamilton (A.).
Crawford, Hugh William (M.).
Cross, John (P., M.).
Dick, Alexander (A., P., M.).
Dick, William (P.).
Douglas, Donald, M.A. (A., P., M.).
Dow, Andrew Robertson (A.).
Dow, William (A., P., M.).
Ferguson, John, M.A. (P.).
Forsyth, Thomas (A., P.).
Fraser, Kate, B.Sc. (A., P.).
Garden, John Andrew (A., P., M.).
Garry, George (A.).
Gilmour, John Ritchie (A.).
Gordon, John Miller (M.).
Hagerty, John Andrew (M.).
Hodge, Ronald Dingwall (P.).
Huey, John Mounette (M.).
Hunter, John Brown Dalzell (M).
Hutchison, Neil M'Coll (P., M.).
Jackson, Ernest David (M.).
Jeffrey, George Rutherford (M.).
Kay, William Fletcher (M.).
Kerr, Andrew Miller (M).
Kirk, William Henry (A.).
Leitch, Archibald (P.).
Lewis, Stanley Everard (A.).
Lochhead, Ethel MacLeod (M.).
Lovett, Thomas (M.).
M'Dougall, Daniel Douglas, M.A. (M.).
Macintyre, Alexander (M.).
M'Kenzie, Ivy, M.A. (A., P.).
M'Kenzie, John Chancellor (A., P., M.).
M'Laren, Thomas (P.).
M'Vail, James Roy (A., P.).
Manson, Robert Harry (A., P., M.).
Martyn, Harry Somerville, M.A. (A., P., M.).
Menzies, Robert (P., M.).
Mitchell, Alexander John (M.).
Muir, John (A., M.).
Nicolson, James Stuart (A., P.).
[illegible] (M.).
Rankine, Thomas (M.).
Reid, John Mark (M.).
Riddell, David (M.).
Robertson, William (Blackwood) (P., M.).
Russell, James (A., P., M.).
Samson, John (M.).
[illegible] (P., M.).
Scott, Frank Donald (M.).
Scott, Martha Hunter (M.).
Sinnette, Malcolm Bernard Gathorne (A.).
Smith, John Williamson (M.).
Smith, Robert Cassels (M.).
Stevenson, John (A., P., M.).
Stewart, John Barbour (P.).
Swan, Robert Rennie (A.).
Thom, John Allan (A., P., M.).
Thomas, John Restell (A., M.).
Turner, William Wagner (A., P., M.).
Wallace, Edith Christine (P., M.).
Wallace, Robert (P.).
Wallace, Thomas Irby (P., M.).
Watson, Robert (M.).
Watt, Alexander Brown (M.).
Waugh, Peter Millar (A.).
Wells, Robert Tait, M.A. (A., P.).
Weston, John Forrest (M.).
White, Joseph, M.A. (A., P.).
Wilson, John (M.).
Wright, Eldred (M.).
Young, Watson (P.).

*April, 1901.*

Adam, Robert (A., P.).
Anderson, Wm Kirkpatrick (A., M.).
Arthur, John William (A., P.).
Arthur, Robert James (A., P., M.).

Auld, Jeanie (P.).
Ballantyne, Thos. (A.).
Bell, Andrew Farm (A., P.).
Bennett, Thomas, M.A. (A., P.).
Bisset, Archibald Grainger (M.).
Black, Annie M'Caig (P., M.).
Blair, Alexander (P., M.).
Bolton, William Thomas (A., P., M.).
Bringan, James Campbell (P., M.).
Brown, John (M.).
Bruce, Robert (A., P.).
Caldwell, John Miller Hopkins (P.).
Cameron, Agnes Wallace (P.).
Cameron, Mary Charlotte (A., P.).
Campbell, Angus (A., P.).
Campbell, Robert Harold (P.).
Cartwright, Robert Peploe (P.).
Chapman, Ethel Lily (P.).
Christie, John Cairns (A.).
Clark, Alexander Erskine (A., P., M.).
Davidson, David William (A., P.).
Davies, Hugh Collin (P.).
Dick, James, M.A. (A.).
Dick, Mitchell Innes (A., P., M.).
Dick, William (A.).
Dickie, David (A., P.).
Donaldson, Hugh M'Millan (P.).
Downie, George Horn (P.).
Duncan, Jessie Galloway (A., P.).
Dykes, David Garfield (A., P., M.).
Eadie, James (A., P., M.).
Finlator, Cunison Charles (A., P., M.).
Gairdner, Eric Dalrymple (A., P.).
Garry, George (P.).
George, William White (A.).
Gilmour, Jane Reid Foulds (A., P.).
Gordon, George (M.).
Hardy, Margaret (A., P.).
Harvey, William (A., P.).
Kelly, James Thompson (P.).
Kelly, John Muir (P., M.).
Kennedy, Alexander Dingwall (P.).
Kennedy, Robert Dallas (M.).
Kerr, John (P.).
Laurie, Robert (A., P., M.).
Leggat, Alexander (M.).
Leitch, Archibald (M.).
Logie, William Jamieson (A.).
Love, Thomas Walker (A., P.).
MacAulay, Donald (M.).
M'Culloch, James Duff (A., P., M.).
MacFarlane, Alexander Armstrong (M.).
Macintyre, David Duncan Fraser (M.).
MacKellar, John Matheson (A., P., M.).
M'Kenzie, Ivy, M.A. (M.).
Maclean, Alice Wesley (P.).
M'Millan, Alex. Stewart (A., P., M.).
M'Neill, Mary Lauchline (A., P.).
M'Vail, James Roy (M.).
Macvea, James Anthony (A., P., M.).
M'Whan, Andrew Alexander (A., M.).
Main, William (P.).
Martin, Anna Pollock (P., M.).
Matheson, Alex., M.A. (A., P.).
Millar, Peter (P., M.).
Miller, Eliza Jane (A., P.).
Mitchell, Alexander John (P.).
Mitchell, Isabel Deane (A., P.).
Mort, Spencer (A., P., M.).
Muir, Gavin (P., M.).
Napier, Alexander Harper (P., M.).
Park, Charlotte Reid (P.).
Penman, David (A., P.).
Pollock, Alexander M'Millan (A., P.).
Pryce, Ethel Jane Mildred (P.).
Rankin, William, M.A. (A., P., M.).
Riddell, Daniel Falconer, M.A. (A., P., M.).
Robertson, Peter Hamilton (A., P.).
Schlomka, Robert Clemens James (A.).
Scott, Frank Donald (A., P.).
Shand, William Garrow (A., P., M.).
Shaw, Lawrence Drew (M.).
Smart, Margaret Hossack (A., P.).
Stevenson, John Black (A., P.).
Stevenson, William David Henderson, M.A. (A., P.).
Stewart, Jessie Marie (A., P.).
Stewart, John Barbour (A.).
Stewart, William (A., P.).
Sutherland, Arthur William, M.A. (A., P., M.).
Sutherland, John Wilson (A., P., M.).
Sutherland, Peter Lindsay (A., P.).
Talbert, Elizabeth Taylor (A., P.).
Waddell, Janet Gardner (A., P.).
Walker, Joseph, M.A. (A., P.).
Warwick, Hugh Fleming (A.).
Watson, William Norman West (A., P.).
Wells, Robert Tait, M.A. (M.).
Weston, John Forrest (A., P.).
White, Joseph, M.A., B.Sc. (M.).
Williams, Griffith John (A., P.).
Wilson, James (A., P., M.).
Wright, Eldred (P.).
Young, Hugh (A., P.).
Young, John, Glasgow (A., P.).
Young, Watson (M.).

### THIRD PROFESSIONAL EXAMINATION.

The following passed in the subjects indicated (P., Pathology ; M., Medical Jurisprudence and Public Health):

*October*, 1900.

Adams, Martha (P., M.).
Anderson, John (M.).
Auld, Robert Wellwood (M.).
Barr, John Stoddart (M.).
Burnett, Ernest Cecil (P., M.).
Cameron, Samuel James (M.).
Currie, Andrew (P., M.).
Dale, John Shedden (M.).
Davidson, David Beattie (M.)
Davidson, James, M.A. (P., M.)
Davie, Gregor Hugh Grant (M.).
Elder, William (P., M.).
Farrar, William Watt (P., M.).
Ferguson, George (M.).
Fletcher, Duncan Johnston (P.).
Gemmill, William (P., M.).
Hunter, Matthew (M.).
Kyle, David, M.A. (M.).
Linn, Alexander (P., M.).
Lochrane, Frank Joseph (M.).
Lusk, Joseph Paterson (P.).
M'Glashan, William Ferguson (P.)
M'Lean, Hugh Archibald (P., M.).
M'Millan, Alexander M'Gaw (P.,M.).
Miller, Janet Thomson (P., M.).
Mitchell, Allan Dixon (P., M.).
Moore, Samuel Johnston (P., M.).
Moorhouse, Alice (P., M.).
Morison, John (P., M.).
Orr, Robert (M.)
Prentice, James Nimmo (P., M.).
Ramsey, Robert (M.).
Renton, John Walker (P., M.).
Robertson, William (Kilmarnock) (M.)
Ross, James Crawford (P., M.).
Sloan, Agnes Bankier (P., M.).
Sloan, Elizabeth Macfarlane (P., M.).
Smith, James (P., M.).
Tomkinson, Joseph Goodwin (M.).
Turner, John Wright (M.).
White, Robert George, M.A., B.Sc. (P., M.).
Wilson, James (P., M.).

*April*, 1901.

Armitage, William (M.).
Baird, Helen Stephen B.A. (P.).
Banks, Alexander Grey (P., M.).
Bryson, Robert (M.)
Buchan, George Frederick (P., M.).
Campbell, John James Young (P., M.).
Carruthers, Alexander Adam (P.).
Chapman, Walter Bartlett (P., M.).
Cramb, Ernest Hamilton (P., M.).
Crawford, Hugh William (P., M.).
Dick, Alexander (P., M.).
Douglas, Donald, M.A. (P.).
Dow, Andrew Robertson (P., M.).
Dow, William (P.).
Ferguson, John, M.A. (P., M.).
Forsyth, Thomas (P., M.).
Garden, John Andrew (P., M.).
Gilmour, John Ritchie (M.).
Gordon, John Miller (P., M.).
Guthrie, John (P., M.).
Hagerty, John Andrew (P.).
Hodge, Ronald Dingwall (P., M.).
Hunter, John Brown Dalzell (P., M.).
Jackson, Ernest David (P., M.).
Jeffrey, George Rutherford (P., M.).
Kay, William Fletcher (P., M.).
Kennedy, John (M.).
Kerr, Andrew Miller (P., M.).
Lewis, Stanley Everard (P., M.).
Lusk, Joseph Paterson (M.)
M'Dougall, Daniel Douglas, M.A. (P.).
MacEwen, Jessie Seath (P., M.).
Macintyre, Alexander (P., M.).
M'Kenzie, John Chancellor (P., M.).
M'Laren, Thomas (P., M.).
Maclean, Alexander (M.).
Maclean, John (P., M.).
MacPhail, Dugald Henry (P., M.).
Makins, Richard (P., M.).
Manson, Robert Harry (M.).
Martyn, Harry Somerville, M.A. (P.).
Menzies, Robert (P.).
Millar, James Grant (P., M.).
Milne, William Alexander (P., M.).
Muir, John (P., M.).
Nicolson, James Stuart (P., M.).
Orr, Robert (P.).
Rankine, Thomas (P., M.).
Reid, John Mark (P.).
Richmond, Thomas (P., M.)
Riddell, David (P., M.).
Robertson, William (Blackwood) (P., M.).
Rogers, Norman Cumming (P.).

Russell, James (M.).
Sinnette, Malcolm Bernard Gathorne (P., M.).
Smith, John Williamson (P., M.).
Smith, Robert Cassels (P., M.).
Spence, David (P., M.).
Stevenson, John (P., M.).
Swan, Robert Rennie (P., M.).
Turner, William Wagner (P., M.).
Unsworth, John (P., M.).
Wallace, Thomas Irby (P., M.).
Watt, Alexander Brown (P., M.).
Waugh, Peter Millar (P., M.).
Wilson, David Ashley (P., M.).
Wilson, John (M.).

### FOURTH PROFESSIONAL EXAMINATION.

The following passed the whole Examination (Surgery and Clinical Surgery; Practice of Medicine and Clinical Medicine; Midwifery):

*July*, 1900.

Aikman, Matthew, M.A.
Arthur, George.
Barbour, Gavin.
Bathgate, Thomas Thomson.
Bennett, James Freeborn.
Binning, Alexander.
Birch, Alexander.
Brown, Harry Egerton.
Brownlie, John Douglas.
Carruthers, Thomas, M.A.
Cathcart, Edward Provan.
Clark, Daisy Annabella Murdoch, B.Sc.
Clark, John Thomson.
Clark, Robert.
Cuthbert, Charles Campbell, M.A.
Davidson, Archibald William Wallace.
Dickson, Frank Lindsay.
Douglas, David Curr.
Duncan, John Pinkerton, B.Sc.
Findlay, Leonard.
Fraser, Alexander, M.A.
Fraser, Lizzie Thomson.
Garrey, Gilbert.
Gartshore, David George Somerville.
Gibson, William.
Gillespie, Edward.
Girvan, William.
Gordon, Helen Mary.
Gourlay, Charles Aikman, M.A.
Gracie, John.
Gunson, Charles Herbert.
Harrington, Archibald Wilson.
Huey, Isaac Mackay.
Inglis, Thomas.
Jones, Pierce.
Kerr, William Bryce.
Laidlaw, James Dickson.
Lambie, John Francis.
Leys, Norman Maclean.
Lickley, James Dunlop.
Liston, Mary Forbes.
Lockhart, John.
Logan, Alexander.
Longwill, David.
M'Kendrick, Anderson Gray.
Mackinnon, James.
Maclean, George Todd, M.A.
Maclurkin, Alfred Robert.
M'Phee, Burgess.
Mair, Andrew.
Marshall, Robert Macnab.
Martin, Allan, M.A., B.Sc.
Millar, James, M.A.
Moir, Alexander Robert.
Munro, Alexander.
Pollock, William Barr Inglis.
Rennie, Robert.
Richmond, John Duncan.
Ritchie, Margaret Mitchell.
Russell, David.
Scott, James, M.A.
Sharp, Edgar William.
Shearer, James.
Simon, David Ap.
Smith, Christian Cleland Wood.
Smith, James Johnston.
Smith, John Steele.
Stewart, Andrew.
Taylor, Gertrude Florence Fleetwood.
Taylor, Robert.
Tierney, Thomas Bird.
Turnbull, James Cameron.
Walker, William Dinning.
White, George.
Williams, Morgan Watkin.
Wilson, Alexander.
Wilson, Thomas Watson.
Wright, Hugh Patrick.

The following passed in the subjects indicated (S., Surgery and Clinical Surgery; P., Practice of Medicine and Clinical Medicine; M., Midwifery):

*July*, 1900.

Burns, William Adam (P., M.).
Campbell, Gertrude Jane (P., M.).
Cassells, Alexander Henderson (P.).
Crichton, Charles Peter Garvie (P., M.).
Downie, John (S., M.).
Fraser, Matthew William (P., M.).
Greig, Lila Stephenson (S., M.).
Henry, James Macpherson (P., M.).
Hope, Charles Milburn (P., M.).
King, Alexander (S., M.).
Leitch, Alexander (S., M.).
Livingston, Donald M'Farlane (S., M.).
Logan, David Dale (P., M.).
MacCulloch, Alexander (P., M.).
M'Dougall, James William (S., M.).
M'Kinnon, George Steventon (S., M.).
MacRae, Duncan Mackenzie, M.A. (P., M.).
Marshall, Jean Marion Farie (P., M.).
Milne, Ernest Wardlaw (S.).
Moir, Peter (P., M.).
Morrison, Daniel (P., M.).
Myhre, Karen Margrethé (P.).
Neill, Thomas (P., M.).
Sinclair, Agnes Brymner (P., M.).
Talbot, Mabel (S., M.).
Thom, Robert Bryers (P., M.).
Young, John (Glasgow) (P., M.).

*October*, 1900.

Burns, William Adam (S.).
Campbell, Gertrude Jane (S.).
Crichton, Charles Peter Garvie (S.).
Downie, John (P.).
Fraser, Matthew William (S.).
Greig, Lila Stephenson (P.).
Henry, James Macpherson (S.).
Hope, Charles Milburn (S.).
King, Alexander (P.).
Leitch, Alexander (P.).
Livingston, Donald M'Farlane (P.).
Logan, David Dale (S.).
MacCulloch, Alexander (S.).
M'Kinnon, George Steventon (P.).
MacRae, Duncan Mackenzie, M.A. (S.).
Marshall, Jean Marion Farie (S.).
Moir, Peter (S.).
Morrison, Daniel (S.).
Neill, Thomas (S.).
Sinclair, Agnes Brymner (S.).
Talbot, Mabel (P.).
Thom, Robert Bryers (S.).
Young, John (Glasgow) (S.).

### FIRST, SECOND, THIRD, AND FOURTH PROFESSIONAL EXAMINATIONS.

The following passed with distinction in the subjects indicated:

### FIRST EXAMINATION.

*October*, 1900.

In Physics and Chemistry—Robert Buchanan Carslaw, M.A.; in Botany and Physics—David James M'Leish, William Brown Morton Martin; in Botany—John Shaw Dunn, Arnold Ernest Jones, Donald Ronald Reid, William Rolland; in Zoology—Jessie Deans Rankin; in Physics—Tom Duncan M'Ewan, Duncan Macfadyen, Andrew Maclean Pollock, Alexander Robertson, James White Thomson; in Chemistry—John Bain, Charles Milligan Drew, James Glover, Donald MacAulay, Beverley Hope-Robertson.

*April*, 1901.

In Botany and Zoology—Robert Buchanan Carslaw, M.A.; in Zoology and Physics—John Taylor; in Zoology and Chemistry—James H. Baird, Thomas Thom; in Zoology—Walter G. Macdonald, M.A., Norman H. W. Maclaren, Matthew T. D. M'Murrich, Arthur Robertson, John M. Ross, Alexander C. Russell, Joseph R. Sutherland; in Physics—Elizabeth M. M'Vail; in Chemistry—Frank Haxwell, William L. Kirkwood, Morrison W. Smith, William Y. Turner, George Young.

### SECOND EXAMINATION.

*October*, 1900.

In Anatomy and Physiology—Joseph White, M.A.; in Physiology—Donald Douglas, M.A,, Kate Fraser, B.Sc.; in Materia Medica and Therapeutics—Alexander Grey Banks, John Cairns Christie, John Brown Dalzell Hunter, George Rutherford Jeffrey, Andrew Miller Kerr, Daniel Douglas M'Dougall, M.A., John Muir, John Mark Reid.

*April*, 1901.

In Anatomy and Physiology—Alexander Matheson, M.A., William D. H. Stevenson, M.A.; in Anatomy and in Materia Medica and Therapeutics—James Eadie, Spencer Mort, William G. Shand; in Physiology and in Materia Medica and Therapeutics—John W. Sutherland; in Anatomy—Joseph Walker, M.A.; in Physiology—Robert J. Arthur, Peter L. Sutherland; in Materia Medica and Therapeutics—Alexander Blair, Cunison C. Finlator, Daniel F. Riddell, M.A.

### THIRD EXAMINATION.

*October*, 1900.

In Pathology—James Crawford Ross; in Medical Jurisprudence and Public Health—John Stoddart Barr, Samuel James Cameron, Robert Ramsey.

*April*, 1901.

In Pathology—John A. Garden, Ernest D. Jackson, Andrew M. Kerr; in Medical Jurisprudence and Public Health—George F. Buchan, William W. Turner, Peter M. Waugh.

### FOURTH EXAMINATION.

*July*, 1900.

In (*a*) Surgery and Clinical Surgery, (*b*) Practice of Medicine and Clinical Medicine—Leonard Findlay; in (*a*) Surgery and Clinical Surgery, (*b*) Midwifery—Alexander Wilson; in Surgery and Clinical Surgery—James Dickson Laidlaw; in Practice of Medicine and Clinical Medicine—Charles Campbell Cuthbert, M.A., John Pinkerton Duncan, B.Sc., James Cameron Turnbull; in Midwifery—James Freeborn Bennett, Edward Provan Cathcart, John Thomson Clark, Archibald William Wallace Davidson, Charles Aikman Gourlay, M.A., Lila Stephenson Greig, Archibald Wilson Harrington, James Macpherson Henry, Alexander King, Norman Maclean Leys, James Dunlop Lickley, Anderson Gray M'Kendrick, James Mackinnon, Alfred Robert Maclurkin, Burgess M'Phee, Robert MacNab Marshall, Allan Martin, M.A., B.Sc., Hugh Patrick Wright.

## IV.—FOR DEGREE OF B.Sc.

### OLD REGULATIONS.

#### IN ANATOMY.

*October*, 1900.—Cumming, Robert, B.D.

### REGULATIONS OF 1892.

#### A. In Pure Science.

#### FIRST SCIENCE EXAMINATION—PORTION.

*October*, 1900.

Auld, Jeanie (Natural Philosophy).
Donald, Robert (Mathematics).
Hutchison, Harry Stewart (Natural Philosophy).

M'Pherson, Andrew Brown (Mathematics, Chemistry).
Smart, Christian Elder Symington (Natural Philosophy).

*April*, 1901

Campbell, John (Mathematics, Natural Philosophy).
Dewar, Robert (Mathematics).
Duncan, William Hunter (Mathematics, Natural Philosophy).
Graham, John (Zoology).
Greig, John Isdale (Chemistry).
Houstoun, Robert Alexander (Natural Philosophy).
Hunter, James (Natural Philosophy).
Hutchison, Harry Stewart (Chemistry).
Lamont, Alexander Buchanan, M.A. (Chemistry).
Mackenzie, Alexander Ramsay (Mathematics, Natural Philosophy).
M'Leish, David James, M.A. (Natural Philosophy).
M'Pherson, Andrew Brown (Natural Philosophy).
Miller, William (Mathematics).
Mort, Frederick, M.A. (Chemistry).
Nolan, Kathleen Mary (Mathematics, Natural Philosophy).
Ramsay, Peter, M.A. (Chemistry).
Rankin, Jessie Deans, M.A. (Chemistry).
Ross, Jane Helen (Mathematics).
Sinclair, James (Chemistry).
Stewart, John Henderson (Chemistry).
Stratton, William, M.A. (Natural Philosophy).
Thomson, David (Natural Philosophy).
Wiseman, William Richard (Natural Philosophy).

### FINAL SCIENCE EXAMINATION—PORTION.

*October*, 1900.

Blyth, Vincent James, M.A. (Geology).
Boyd, William, M.A. (Geology, Zoology).
Clark, James Miller (Mathematics, Natural Philosophy).
Hyslop, William, M.A. (Geology).
Leitch, Archibald (Physiology).
M'Kenzie, Ivy, M.A. (Physiology, Zoology).
Matheson, Alexander, M.A. (Zoology).
White, Joseph, M.A. (Anatomy).
Wood, Alexander (Mathematics, Natural Philosophy).

*April*, 1901.

[1]Clark, James Miller, M.A. (Astronomy).
Graham, Alexander (Geology).
Henderson, James Alexander Russell (Mathematics).
Hutton, Malcolm, M.A. (Zoology).
M'Cririck, Thomas, M.A. (Geology).
M'Kenzie, Ivy, M.A. (Anatomy).
Matheson, Alexander, M.A. (Anatomy, Physiology).
Stewart, Alfred Walter (Chemistry).
[1]Wood, Alexander (Astronomy).

## B. IN ENGINEERING.

### FIRST SCIENCE EXAMINATION—PORTION.

*October*, 1900.

Aitchison, James (Higher Natural Philosophy).

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[1] With Special Distinction in Astronomy.

Begg, James M'Gee (Ordinary Mathematics).
Blackley, Samuel (Chemistry, Chemical Laboratory).
Bryson, William (Higher Mathematics).
Craig, James (Higher Mathematics).
Dempster, Thomas Grant (Chemistry, Chemical Laboratory).
Donaldson, Alexander Cleveland (Chemistry, Chemical Laboratory).
Fairley, John (Higher Natural Philosophy).
Fairlie, John Clowes (Higher Mathematics).
Gunson, Ernest Whinery (Higher Mathematics).
Harley, Frederick Arthur (Physical Laboratory).
Harvey, William Barnett (Ordinary Natural Philosophy).
Henderson, John Francis (Higher Mathematics).
Mackay, Hugh Alexander (Higher Mathematics).
Marie, Carolus (Higher Natural Philosophy).
Mitchell, John Stewart (Chemistry, Chemical Laboratory).
Muir, John Findlay (Ordinary Mathematics, Chemistry, Chemical Laboratory).
Muirhead, James (Ordinary Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
Neilson, Robert Thomson (Higher Natural Philosophy).
Robertson, William Frank (Ordinary Natural Philosophy).
Smyth, Fryer Thomas Acheson (Ordinary Natural Philosophy, Physical Laboratory).
Spartali, Michael (Ordinary Natural Philosophy).
Stewart, Frederick Robert (Ordinary Natural Philosophy).
Tainsh, John Alexander Gowans (Ordinary Mathematics, Ordinary Natural Philosophy, Physical Laboratory).
Taylor, Bertram Fenwick (Ordinary Natural Philosophy).
Wilson, Arthur Hamilton (Ordinary Natural Philosophy, Chemistry).
Young, John Graham (Physical Laboratory).

*April*, 1901.

Beilby, Hubert Noel (Ordinary Natural Philosophy, Physical Laboratory).
Blackley, Samuel (Ordinary Natural Philosophy).
Blair, James Davidson (Ordinary Mathematics).
Blair, Robert (Chemistry, Chemical Laboratory).
Bryson, William (Higher Natural Philosophy).
Craig, James (Higher Natural Philosophy).
Dempster, Thomas Grant (Higher Mathematics).
Dickie, James Black (Ordinary Mathematics, Ordinary Natural Philosophy, Chemistry, Chemical Laboratory).
Donald, William Francis Maxwell (Ordinary Natural Philosophy).
Donaldson, Alexander Cleveland (Higher Mathematics).
Fairlie, John Clowes (Ordinary Natural Philosophy).
Gray, William M'Gill (Higher Mathematics, Chemistry, Chemical Laboratory).
Harvey, William Barnett (Higher Mathematics).
Hislop, Frederick Laurence (Higher Mathematics, Ordinary Natural Philosophy).
Holmes, Robert Gerard Addison (Ordinary Natural Philosophy).
Houston, William Campbell (Higher Mathematics, Higher Natural Philosophy).
Howat, William Carrick (Ordinary Mathematics).
Howden, James (Ordinary Mathematics).
[1]Hunter, Thomas Macmillan, M.A. (Higher Mathematics).
Lobban, Charles Henry (Ordinary Natural Philosophy).
MacDougall, John Ernest (Ordinary Natural Philosophy).

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[1] With Special Distinction in Higher Mathematics.

MacLachlan, Duncan Robert (Higher Natural Philosophy, Chemistry, Chemical Laboratory).
Maclean, Neil John (Ordinary Mathematics, Ordinary Natural Philosophy, Physical Laboratory, Chemistry).
Macmillan, Neil Boyd (Higher Natural Philosophy).
Martin, John (Ordinary Mathematics, Ordinary Natural Philosophy).
Mitchell, John Stewart (Ordinary Mathematics, Ordinary Natural Philosophy).
[1]Morley, Thomas Bonner (Higher Natural Philosophy, Chemistry).
Muir, John Findlay (Higher Mathematics, Ordinary Natural Philosophy).
Muirhead, James (Higher Mathematics, Chemistry).
Steele, James Edward (Higher Mathematics, Chemistry).
Stewart, Frederick Robert (Higher Mathematics).
Tainsh, John Alexander Gowans (Chemistry).
Taylor, Bertram Fenwick (Physical Laboratory).
Ure, Robert (Ordinary Mathematics, Chemistry).
Wilson, Alfred John (Higher Natural Philosophy).
Wilson, Andrew Victor (Ordinary Natural Philosophy, Chemistry).
Wilson, Arthur Hamilton (Physical Laboratory).
Younger, John (Higher Mathematics, Ordinary Natural Philosophy, Physical Laboratory).

### FINAL SCIENCE EXAMINATION—PORTION.

*October*, 1900.

Aitchison, James (Engineering and Drawing, Geology and Mineralogy).
[2] Ballantyne, William Henry (Electricity—Pure and Applied).
Brown, John (Geology and Mineralogy).
Hunter, Thomas Macmillan, M.A. (Geology and Mineralogy).
Mackay, Hugh Alexander (Geology and Mineralogy).
Marie, Carolus (Engineering and Drawing).
Stirling, James Neilson (Engineering and Drawing, Engineering Laboratory—Electrical).
Whitelaw, Andrew Hepburn (Engineering and Drawing).
Wilson, Alfred John (Electricity—Pure and Applied).

*April*, 1901.

Burn, William George (Engineering and Drawing).
Craig, James (Engineering and Drawing, Engineering Laboratory—Electrical).
Henderson, John Francis (Engineering and Drawing, Engineering Laboratory—Electrical).
Neilson, Robert Thomson (Engineering and Drawing).
Young, George Macmillan (Engineering and Drawing, Engineering Laboratory—Electrical).

## C. IN AGRICULTURE.

### FIRST SCIENCE EXAMINATION—PORTION.

*October*, 1900.

Barbour, Alexander Cunninghame (Natural Philosophy).
Bradshaw, James (Botany).
Porter, Edward (Zoology, Botany, Natural Philosophy.)

*April*, 1901.

Cupples, Joseph (Mathematics).
Porter, Edward (Chemistry).
Watt, Robert Dickie (Mathematics).

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[1] With Special Distinction in Higher Natural Philosophy.
[2] With Special Distinction in Electricity—Pure and Applied.

### FINAL SCIENCE EXAMINATION—PORTION.

*April*, 1901.

Bradshaw, James (Geology, Agricultural Botany, Agricultural Entomology, Economic Science, Engineering Field Work).
Graham, Alexander (Geology, Agricultural Botany, Agricultural Entomology, Economic Science, Engineering Field Work).

## V.—FOR CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE.

*October*, 1900.

Gardner, Stanley Joseph (Drawing).
Gunson, Ernest Whinery (Mathematics).
Henderson, John Francis (Mathematics).
Whitelaw, Andrew Whitelaw (Engineering and Laboratory, Drawing).
Wilson, Alfred John (Electricity—Pure and Applied).

*April*, 1901.

Bianchi, Manuel Ireneo (Chemistry).
Burns, Daniel (Geology).
Craig, James (Engineering and Laboratory, Drawing, Engineering Laboratory—Electrical).
Fairley, John (Drawing).
Gardner, Stanley Joseph (Natural Philosophy).
Henderson, John Francis (Engineering and Laboratory, Drawing, Engineering Laboratory—Electrical).
Hislop, Frederick Laurence (Mathematics, Natural Philosophy, Chemistry).
Muirhead, James (Mathematics, Chemistry).
Neilson, Robert Thomson (Engineering and Laboratory, Drawing).
Symons, John Wade (Natural Philosophy).
Ure, Robert (Chemistry).
Young, George Macmillan (Engineering and Laboratory, Drawing, Engineering Laboratory—Electrical).

## VI.—FOR DEGREE OF M.A.

### OLD REGULATIONS.

### 1. IN CLASSICAL LITERATURE.

*October*, 1900.

Cunningham, Alexander.
Edgar, Samuel Crawford Blair.
Young, John Cameron, M.B.

*April*, 1901.

Lindsay, James.
Smith, John Seaton.

### 2. IN MENTAL PHILOSOPHY.

*October*, 1900.—Weir, John.

*April*, 1901.—Campbell, Andrew.

### 3. IN MATHEMATICS AND NATURAL PHILOSOPHY.

*October*, 1900.—Cadenhead, David Graham.

*April*, 1901.—Beaton, Matthew.

## NEW REGULATIONS.

### A.—*LANGUAGE AND LITERATURE.*

LATIN.

*October*, 1900.

Ackland, Dorothy.
Armour, Helen Maxwell.
Beith, Peter.
Blackwood, Helen Orniston.
Boyd, Alexander Bisland.
Boyd, Mary Russell.
Buchan, William Henderson (II. Hon.).
Cameron, William Ernest.
Dobbie, William.
Douglas, Robert.
Downie, Jemima Wright.
Dyer, James Ferguson (I. Hon.).
Edgar, John Henderson.
Fleming, John Alexander.
Gillies, Daniel.
Gourlay, James Nash.
Grieve, Weir.
Horn, John Fraser.
Jack, Robert.
Jones, Thomas.
Macalister, Robert Henry.
M'Coll, Hugh Clarke.
Macdonald, Hughina Jeanie Cameron.
M'Lean, Elizabeth Rankin.
M'Leod, Daniel.
M'Neil, John.
Martin, John Allan.
Milligan, James Aitchison (II. Hon.).
Park, Graham.
Picken, Agnes.
Porteous, James Smith.
Reid, Maggie Miller.
Ritchie, Allan Marshall.
Ritchie, William Tod (III. Hon.).
Robertson, Thomas Graham.
Ross, Jane Helen.
Ross, John Morison.
Roy, William.
Safeley, John.
Shearer, Robert Walter Rogerson.
Spens, Walter Thomas Patrick.
Spreull, George John.
Strachan, Alexander.
Stratton, William.
Walker, William Lind.

LATIN.

*April*, 1901.

Adam, Colin Black.
Anderson, Margaret M'Kenzie.
Arnott, Annie Jane.
Baillie, John.
Baird, Andrew Cumming.
Baird, Annie Agnes.
Biggar, Mary Campbell.
Blair, Duncan.
Bowman, Archibald Allan.
Brabender, Janet Campbell.
Brown, Alexander.
Brown, John (Fauldhouse).
Brown, William (Bothwell).
Buchanan, James Robertson.
Burns, James.
Campbell, Archibald.
Campsie, William Alexander.
Clark, Duncan Walker.
Clark, Mabel Beatrice.
Conn, Robert.
Cowan, Arthur Aitken.
Cross, Robert Nicol.
Cullen, Thomas Thompson.
Dallas, Margaret.
Dewar, Robert.
Donald, William Buchan.
Douglas, Thomas Logan.
Duncan, Thomas.
Dunn, Theodore Douglas.
Ferguson, William.
Findlay, John Alexander.
Finlay, Archibald Barbour.
Forrest, Samuel Norris.
Frew, James Mair.
Fullarton, Sarah Morton.
George, John Campbell.
Gillan, William.
Grant, Sinclair.
Green, Janet.
Hair, Duncan Davidson.
Hair, John (Muirkirk).
Hair, John (Thornhill).
Harvey, Margaret Arthur.
Harvie, Robert.
Hay, John M'Dougall.
Henderson, William Williamson.
Hendrie, Margaret M'Kinnon.
Herriot, Jane Cumstie Williamson.

Hill, Ella Smith.
Hunter, Jennie Cameron.
Hunter, Jenny Gibson.
Hunter, Mary Violet.
Hutchison, Andrew.
Hutchison, Arthur Scott (III. Hon.).
Hutton, Frederick Robert Hughes.
Irvine, Robert.
Isbester, Lucy Hay.
Jamieson, William.
Jeffrey, George Johnstone.
Jones, Elias Henry.
Jones, Owen Lloyd (II. Hon.).
Killin, Margaret Montgomerie.
Laird, Lily Donaldson.
Lawson, Gavin.
Lindsay, William Macskimming.
M'Allister, George William.
M'Arthur, Neil.
M'Arthur, Peter Cunningham.
M'Dougall, William.
M'Ewen, Thomas.
Macgregor, Anne Murray.
M'Iver, Murdoch.
Mackenzie, Alexander.
Mackenzie, Robert.
M'Kerrow, Margaret Elizabeth.
M'Kinnell, John Scott.
Mackinnon, Mary Isabella.
M'Laren, Duncan.
Maclean, Wilfred Gerald.
Macmillan, Robert Alex. Cameron.
M'Murtrie, Thomas Robert (II. Hon.).
Macnab, George.
M'Neill, Margaret.
M'Pherson, Peter.
Mair, Margaret.
Malcolm, William Risk.
Middleton, John Clark.
Miller, James.
Miller, John (Beith).
Miller, William.
More, James William.
Mortimer, John Chapple.
Muggoch, James Wilson.
Murray, Alexander.
Murray, Thomas David King.
Naismith, Robert.
Nicholson, Clark.
Orr, John Boyd.
Paterson, George.
Paterson, John Neil M'Leod.
Paterson, Margarette Cunningham.
Patrick, Adam.
Percy, Dugald Ferguson.
Purdie, John.
Ritchie, James.
Russell, Alexander (II. Hon.).
Scott, Elizabeth Wilkie.
Scott, James Edward.
Scott, John Waugh.
Shaw, Alexander.
Simpson, John Dunlop.
Smart, John.
Steel, James Hall.
Steven, John Fraser.
Stewart, Thomas (Glasgow).
Swan, John Arbuckle.
Taylor, David Gladstone, M.A. (I. Hon.).
Thomson, John Archibald Glover.
Thomson, Mary Emilie.
Thomson, Robert Cleghorn.
Waddell, Bryce Martin.
Waddell, Peter Hately (I. Hon.).
Watson, James Gibb.
Watt, Robert Dickie.
Watt, Thomas Morrison.
Whiteford, Matthew.
Whitelaw, John.
Wilkie, Helen.
Wilson, Douglas Hamilton.
Wilson, Isabella.
Wishart, John.
Wordie, William.
Wright, Charles M'Ghie (III. Hon.).
Wright, George.
Wylie, Jessie Reid.

### GREEK.

*October*, 1900.

Buchan, William Henderson (II. Hon.)
Dobbie, William.
Dunlop, Alexander Slater.
Dyer, James Ferguson (I. Hon.).
Fleck, John M'Pherson.
Fletcher, Angus Peter.
Fyfe, Alexander.
Gibson, John.
Gordon, John.
Kinloch, John Laing.
Macmillan, Ebenezer.
Main, John.
Milligan, James Aitchison (II. Hon.).
Moir, James Campbell.
Neilson, James Arthur.
Ritchie, William Tod (III. Hon.).
Ross, George.
Spens, Walter Thomas Patrick.
Strathern, Robert Fairley.

*April*, 1901.

Adam, Colin Black.
Auld, William.
Baird, Andrew Cumming.
Barnes, Edgar.
Bowman, Archibald Allan.
Buchanan, James Robertson.
Campbell, Archibald.
Clark, John Sawers.
Cross, Robert Nicol.
Donald, William Buchan.
Douglas, Thomas Logan.
Duncan, Thomas.
Ferguson, George.
Findlay, John Alexander.
Hair, Duncan Davidson.
Hamilton, Robert (Cleland).
Harvie, Robert.
Hunter, Jenny Gibson.
Hutchison, Arthur Scott (III. Hon.).
Jones, Elias Henry.
Jones, Owen Lloyd (II. Hon.).
King, Archibald.
Lang, Archibald.
Lindsay, Hilda Oliphant.
Logan, Norman Russell.
Low, Thomas.
M'Arthur, Neil.
Macgregor, Annie Murray.
MacInnes, Joseph.
Maclean, Hector.
MacLean, John (Wishaw).
Macmillan, Robert Alexander Cameron.
M'Murtrie, Thomas Robert (II. Hon.).
Marshall, Peter.
Moffatt, Alexander.
Murray, Thomas David King.
Patrick, Adam.
Ritchie, Allan Marshall.
Rogerson, Andrew William.
Rowan, Harold Charles.
Russell, Alexander (II. Hon.).
Scott, James Edward.
Simpson, John Dunlop.
Taylor, David Gladstone, M.A. (I. Hon.).
Waddell, Peter Hately (I. Hon.).
Whitelaw, John.
Wright, Charles M'Ghie (III. Hon.).

ENGLISH.

*October*, 1900.

Anderson, Margaret Lindsay (I. Hon.).
Bain, James.
Cameron, William Ernest.
Fearn, John Clark.
Fletcher, Angus Peter.
Gordon, John.
Hardie, William Towers.
Hardy, Margaret Mary.
Henderson, Robert.
Hutchison, Arthur Scott.
M'Gregor, George Alexander.
M'Kail, James.
Millar, Alexander.
Mitchell, James Alfred.
Paterson, William.
Walker, John (Larbert).
Wilson, Alexander Robertson.

*April*, 1901.

Aitken, George.
Alcorn, William Andrew.
Anderson, Thomas.
Andrew, William Hunter.
Baird, James.
Barr, Robert William.
Bennett, William.
Bickett, Margaret Muir.
Blackwood, Helen Ormiston.
Blair, Duncan.
Borland, Alexander.
Boyd, Mary Russell.
Brechin, John Chalmers.
Brown, John (Fauldhouse).
Brown, William (Fauldhouse).
Bryan, David.
Buchan, James Walter.
Burns, James.
Burt, Sarah M'Allister.
Carswell, Donald.
Chalmers, Humphrey.
Clark, William Weir.
Cosh, James.
Crawford, Archibald.
Crichton, Alexander Pender.
Davidson, James Allan.
Dick, James.
Dobbie, William.
Drury, John.
Dunn, Theodore Douglas.
Ferguson, George.
Fleming, Archibald.
Fordyce, William Lamb.
Forfar, David.

Forrest, Samuel Norris.
Fraser, Isabella Milligan.
Fyfe, Alexander.
Geddes, Mathew.
Gillies, Daniel.
Grieve, George.
Guthrie, John.
Hamilton, John M'Farlane.
Hamilton, Robert (Glasgow).
Hamilton, William.
Harley, Alexander Hamilton.
Hay, John M'Dougall.
Hogarth, Catherine Carruth.
Howat, William.
Hunter, Jennie Cameron.
Hutcheson, John.
Jamieson, William.
Jamieson, William James.
Johnson, Donald.
Kerr, William (Beith).
Kinloch, John Laing.
Knowles, Isobel Alexander.
Laird, Lily Donaldson.
Lambie, Margaret Bryson.
Leitch, Donald.
Lewis, John.
Lindsay, William.
Lochhead, Margaret Alexander.
Logan, Norman Russell.
M'Donald, David Paterson.
MacEwen, Sydney Melrose.
M'Farlane, Hugh.
Macfarlane, Robert.
M'Gauley, John M'Lauchlan.
M'Gill, Mary Watson.
Machaffie, John M'Keand.
M'Iver, Alexander Matheson.
M'Kinnell, John Scott.
Mackinnon, Grace Alice.
Mackinnon, Mary Isabella.
M'Laren, Archibald.
MacLean, Archibald Cockburn.
Maclean, John (Pollokshaws).
Maclean, Wilfred Gerald.
M'Millan, Andrew.
Macmillan, Ebenezer.
M'Millan, John (Bonhill).
M'Millan, Margaret Carson.
M'Murtrie, John Malcolm.
Main, John.
Mair, John (Pollokshields).
Middlemiss, Francis.
Milne, Robert.
Milne, Robert Kerr.
Motherwell, Margaret Jeffrey.
Naismith, Robert.
Nelson, Charles Gilbert.
Nelson, Jannette Reid Bartholomew.
Ness, Robert Ralston.
Nicolson, John.
Orr, John Boyd.
Park, Graham.
Paterson, George.
Paterson, Thomas Ure.
Peebles, Thomas.
Percy, Dugald Ferguson.
Phillips, James.
Pollock, George Alexander.
Quig, Gordon.
Rattray, Edward Boase.
Richards, Leyton Price.
Robertson, Jane Isabel.
Ross, Henry.
Runciman, Agatha Rachel.
Safeley, John.
Scott, Margaret.
Scott, Robert (Paisley).
Selfridge, John.
Shaughnessy, Joseph.
Simpson, Herbert Muir.
Skinner, Mary Ann Campbell.
Smith, Donald (Glasgow).
Smith, John (Falkirk).
Spence, John Ryrie.
Stewart, John.
Taylor, Henry.
Thomson, David Alexander.
Turner, Malcolm Kerr.
Waddington, Cecilia Jane.
Walker, John (Glasgow).
Wallace, William.
Watt, Hugh (I. Hon.).
Watt, Robert Dickie.
Watt, Thomas Morrison.
Westwater, James.
Whiteford, Matthew.
Wilson, Alexander Cunningham (III. Hon.).
Wotherspoon, James Alexander.
Wright, Charles M'Ghie.
Young, Robert Comingo.

### FRENCH.

*October*, 1900.—Gallagher, Mary Theresa.

*April*, 1901.

Ackland, Dorothy.
Aird, Janet Roberton.
Binnie, Marion King (I. Hon.).
Blackhall, Mary.
Brechin, Margaret Blackley.
Craig, Arthur.
Dick, Jennie.
Galbraith, Annie Isabel.
Grant, Jessie Elizabeth Gollan.
Guthrie, Alice Margaret Blyth.
Irvine, Robert.
Kerr, Elizabeth Craig.
Lochhead, Margaret Alexander.
M'Gill, Mary Watson.
M'Haffie, Isabella.
Mackay, Grace Christina.
Mackinnon, Grace Alice.
M'Millan, David.
Millen, James White.
Morton, Christian Pettigrew Home.
Sinclair, Mary Graham.
Whiteford, Matthew.
Wilson, Douglas Hamilton.

### GERMAN.

*October*, 1900.

Bennie, Catherine.
Lambie, Margaret Bryson.
Mackinnon, Grace Alice.

*April*, 1901.

Binnie, Marion King (I. Hon.).
Blackhall, Mary.
Brown, William (Paisley).
Chalmers, Margaret.
Gordon, Ida M'Gregor.
Guthrie, Alice Margaret Blyth.
Kerr, Elizabeth Craig.
M'Millan, Margaret Carson.
Thomson, Mary Emilie.
Workman, Winifred.

### HEBREW.

*October*, 1900.—Rutherford, William Steel.

### ARABIC.

*October*, 1900.—Russell, Alexander.

## *B.—MENTAL PHILOSOPHY.*

### LOGIC AND METAPHYSICS.

*October*, 1900.

Alexander, Thomas.
Darroch, Neil Donald.
Fletcher, Angus Peter.
Grieve, Weir.
Hardie, William Towers.
Jeffrey, Thomas.
Kingsmill, Julian Bruce.
M'Gregor, George Alexander.
Mackay, Alexander Borthwick (I. Hon.).
MacPhail, Neil.
Main, Alexander.
Millar, Robert.
Miller, John (Motherwell).
Milne, Robert Kerr.
Montgomerie, Alexander (I. Hon.).
Morrison, Kate.
Morton, David.
Paterson, William.
Pryde, John Marshall.
Scott, Robert (Glasgow).
Smith, Peter George (II. Hon.).
Wright, Charles M'Ghie.

*April*, 1901.

Ackland, Dorothy.
Aitken, George.
Allan, Francis.
Baird, Annie Agnes.
Baird, James.
Beaumont, George.
Blackhall, Mary.
Blackwood, Helen Ormiston.

Boyce, Claud Alexander.
Brown, Andrew.
Brown, John Dunlop.
Brown, William (Paisley).
Burnside, Jessie.
Cameron, William Ernest.
Campbell, George.
Carswell, Donald.
Chambers, Frances Sara.
Clark, Mabel Beatrice.
Cochrane, James.
Cockburn, James Hutchison.
Crawford, Archibald.
Cunningham, Robert.
Downie, Jemima Wright.
Drew, Charles Milligan.
Drury, John.
Duncan, Margaret Lightbody.
Dunlop, Alexander Slater.
Fleck, John M'Pherson.
Fleming, Archibald.
Fleming, John Alexander.
Forbes, Augustine Wentworth Scudamore.
Fullarton, Sarah Morton.
Galbraith, Annie Isabel.
Galbraith, James Brunton.
Gordon, Ida M'Gregor.
Gordon, John.
Gourlay, James Nash.
Haldane, John Rodger.
Hardy, Margaret Mary.
Hogarth, Catherine Carruth.
Horn, John Fraser.
Hudson, Alice Beatrice.
Hutchison, David M'Cowan.
Johnston, Lucy Perfect.
Kaye, John.
Kerr, Elizabeth Craig.
Kerr, William (Glengarnock).
Ketchen, Marjory Ogilvy.
Lauder, Isa Esther.
Leckie, Robert White.
Lewis, John.
Low, Thomas.
MacAlister, Malcolm.
Macalister, Robert Henry.
M'Bryde, John.
MacConnachie, Annie Wallace.
M'Elwain, James.
M'Gauley, John M'Lachlan.
M'Haffie, Isabella.
MacInnes, Joseph.
Macintyre, Margaret.
M'Iver, Alexander Matheson.
M'Millan, David.
Macmillan, Ebenezer.
M'Millan, John (Glasgow).
M'Millan, John Murray.
M'Neil, John.
Macvicar, Angus John.
Main, John.
Mair, John (Pollokshields).
Manson, William.
Marr, James Henderson.
Masterton, David Graham.
Mortimer, William.
Motherwell, Margaret Jeffrey.
Moyes, James.
Murray, Richard.
Neilson, James Arthur.
Nelson, Charles Gilbert.
Ness, Robert Ralston.
O'Beirne, Neil Hay,
Phillips, James.
Phillips, Martin.
Philps, George Pixton.
Pollock, George Alexander.
Reid, Maggie Miller.
Richards, Leyton Price.
Ritchie, Allan Marshall.
Robertson, Margaret Thomson.
Rogen, Alfred Sands.
Ross, George.
Rowse, Harold Charles.
Runciman, Agatha Rachel.
Rusk, Robert Robertson.
Skilling, Samuel Ritchie.
Small, Andrew John.
Smith, John (Falkirk).
Stevenson, James Hall.
Stewart, John.
Stewart, Kenneth.
Strathern, Robert Fairley.
Thomson, Alexander Dunbar.
Thorne, Thomas Brown.
Walker, William Lind.
Wallace, William.
Wardrop, Edward Hunter.
Weir, Marion.
Young, Archibald.

### MORAL PHILOSOPHY.

*October*, 1900.

Brown, John Campbell.
Henderson, James.
Henderson, Robert.
Lightbody, Isaac Whiteford.

Mackay, Alexander Borthwick (I. Hon.).
M'Michael, John.
MacMillan, Peter.
Montgomerie, Alexander (I. Hon.).
Morrison, Kate.
Smith, Peter George (II. Hon.).
Sproull, George John.
Stirling, John.

*April*, 1901.

Aird, Janet Roberton.
Alexander, Robert.
Anderson, John (Newmilns).
Austin, James.
Bain, James.
Barrowman, Mary.
Bell, Robert William.
Bell, Walter William Aitken.
Bennett, William.
Borland, Alexander.
Brown, Andrew.
Brown, William (Fauldhouse).
Bryan, David.
Burt, Sarah M'Allister.
Cameron, William Ernest.
Campbell, Daniel Kirkwood.
Campbell, George.
Chalmers, David Keir.
Christie, John Cairns.
Clark, William Weir.
Climie, Jenny Cumming.
Cochrane, James.
Cockburn, James Hutchison.
Cosh, James.
Currie, Mary Darroch.
Dewar, Robert Scott.
Dick, James.
Dick, Jennie.
Dunlop, Alexander Slater.
Dunn, John Shaw.
Dyer, James Ferguson.
Edgar, John Henderson.
Elder, Arthur Granville Hepburn.
Ewen, Christian.
Farmer, Charles Blackwood.
Ferguson, William.
Finlay, Archibald Barbour.
Fletcher, Angus Peter.
Fordyce, William Lamb.
Forfar, David.
Fraser, Isabella Milligan.
Frew, John.
Greig, John Isdale.
Haldane, John Rodger.
Hardy, Margaret Mary.
Henderson, Andrew.
Henderson, Walter.
Henderson, William Watson.
Horn, John Fraser.
Houston, William.
Houstoun, Robert Alexander.
Isbister, Lucy Hay.
Jamieson, William James.
Jeffrey, Thomas.
Kedie, Annie Fraser.
Keir, David Robert Mackenzie.
Kettle, Margaret [illegible].
Kinloch, John Laing.
Lamb, Agnes Charlotte.
Leckie, Robert White.
Lindsay, William.
Lindsay, William Macskimming.
Lochhead, Margaret Alexander.
Macalister, Robert Henry.
M'Arthur, Jane.
M'Bain, Annie.
MacBean, Alexander.
MacEwen, Sydney Melrose.
MacGregor, George Alexander.
M'Guire, Robert Clark.
M'Hattie, Isabella.
Mackay, Grace Christina.
Mackay, James Provan.
Mackinnon, Grace Alice.
MacLean, Alexander Cockburn.
Maclean, Hector.
Macleod, Alexander.
M'Millan, John Murray.
M'Millan, Margaret Carson.
M'Neil, John.
MacPhail, Neil.
M'Phee, John.
M'Phun, Frances Mary.
M'Shee, Andrew.
Macvicar, Angus John.
Main, Alexander.
Malcolm, Alice Annie Lumsden.
Milne, Robert Kerr.
Mitchell, George.
Mitchell, James Alfred.
Montgomerie, David Lindsay.
Mortimer, William.
Morton, Christian Pettigrew Home.
Murray, Richard.
Neilson, John.
Nisbet, William.
Rawson, Walter Amos.
Reith, George Douglas.
Ritchie, William Tod.
Robertson, Margaret Thomson.

Robertson, Thomas Graham.
Rook, Thomas.
Roy, William.
Safeley, John.
Saunders, Frank William.
Scott, John Waugh.
Scott, Margaret.
Scott, Robert (Glasgow).
Shann, George.
Smith, William Begbie.
Spence, John Ryrie.
Spens, Walter Thomas Patrick.
Thomson, David.
Thomson, Kyle.
Thorne, Thomas Brown.
Tulloch, Robert.
Turner, Malcolm Kerr.
Turner, William Young.
Walker, John (Glasgow).
Watson, James Gibb.
Westwater, James.
Wishart, John.
Wright. John Murray.
Young, Archibald.

## POLITICAL ECONOMY.

### *October*, 1900.

Harvey, George Thomson.
MacMillan, Peter.
Main, Alexander.
Mair, John (Pollokshields).

### *April*, 1901.

Archibald, Constance Helen Margaret.
Barr, Robert William.
Black, Norman Annandale.
Brechin, John Chalmers.
Brechin, Margaret Blackley.
Brown, William (Fauldhouse).
Buchan, James Walter.
Chalmers, Humphrey.
Dick, David M'Culloch.
Dryer, Oliver.
Ferguson, William.
Ferrier, Douglas.
Forbes, Augustine Wentworth Scudamore.
Geddes, Mathew.
Grieve, George.
Hamilton, John M'Farlane.
Jack, Robert.
Jones, Thomas, M.A. (I. Hon.).
Lawrie, Alexander.
MacBean, Alexander.
M'Elwain, James.
M'Ewen, Thomas.
M'Innes, Neil.
M'Laren, Archibald.
M'Michael, John.
M'Millan, David.
M'Millan, John (Glasgow).
M'Murtrie, John Malcolm.
Macpherson, Alexander Hugh.
Malcolm, William Risk.
Martin, John Allan.
Moffatt, Alexander.
Muggoch, James Wilson.
Naismith, Robert.
Paterson, Neil MacLeod.
Paterson, Thomas Ure.
Peebles, Thomas.
Robertson, Thomas Graham.
Ross, George.
Scott, Robert (Glasgow).
Selkirk, William.
Shann, George.
Shaughnessy, Joseph.
Simpson, Herbert Muir.
Smith, William Begbie.
Stewart, Matthew.
Sutherland, William.
Vincent, Clarence James.
Walker, William Lind.
Wishart, John.
Wright, George.
Wright, John Murray.
Young, Archibald.

## THEORY, HISTORY, AND ART OF EDUCATION.

### *October*, 1900.

Allan, Francis.
Brown, Andrew.
Brown, John Campbell.
Brown, William (Bothwell).
Currie, Mary Darroch.
Dick, David M'Culloch.
Dick James.
Farmer, Charles Blackwood.
Finlay, Archibald Barbour.
Hair, John (Thornhill).
Hardy, Margaret Mary.
Hudson, Alice Beatrice.
Lang, William.
M'Allister, George William.

M'Culloch, Mary Malcolm.
M'Donald, Roderick Alexander.
Middlemiss, Francis.
Muggoch, James Wilson.
Naismith, Robert.
Phillips, James.
Rae, Peter.
Skilling, Samuel Ritchie.
Thomson, David.
Watters, Alexander Marshall.

*April*, 1901.

Anderson, John (Langside).
Anderson, John Dunlop
Arneil, Loudon.
Baird, James
Beveridge, James.
Biss, Evan Ebenezer.
Boyd, Mary Russell.
Clark, Henry Grindlay.
Clark, William.
Conn, David.
Cook, John.
Craig, Arthur.
Cromar, Frederick Gordon.
Cullen, Charles.
Downie, Jemima Wright.
Drape, Agnes Waugh.
Dudgeon, Peter.
Duncan, William Hunter.
Dunlop, Archibald Hume.
Forrest, Louise Margaret.
Forrest, Samuel Norris.
Gibson, John.
Green, George.
Greer, Samuel.
Guthrie, John.
Hair, John (Muirkirk).
Hutchison, Andrew.
Jamieson, Samuel Robertson.
Jarvie, William Robert.
Knowles, Isobel Alexander.
MacAlister, Malcolm.
M'Bride, William.
MacConnachie, Annie Wallace.
M'Donald, David Paterson.
M'Fadyen, James.
M'Farlane, Margaret Conchie Raphael.
MacGregor, George Alexander.
M'Harg, James.
M'Laren, Martin Campbell
M'Laughlin, John.
M'Lelland, William.
M'Quistan, Dougald Black.
Mair, John (Paisley.)
Millar, Alexander.
Miller, James.
Milne, Robert.
Milne, Robert Kerr.
O'Beirne, Neil Hay.
O'Sullivan, Nora.
Reynard, Marion Aiton Ballantyne.
Robertson, James.
Routledge, Janet Stewart.
Scott, John M'Naught.
Scott, Robert (Paisley).
Scoular, Andrew Findlay.
Smith, Finlay.
Watson, Donald Bannatyne.
Watson, John Alexander.
Weir, Marion.
Wilson, Jeannie.
Wotherspoon, James Alexander.

## *C. SCIENCE.*

### MATHEMATICS.

*October*, 1900.

Andrew, William Hunter.
Armstrong, Thomas.
Barrowman, Mary.
Cameron, William Ernest.
Clark, James Miller (III. Hon.).
Craig, Arthur.
Dale, Robert Wilson.
Elliot, John James.
Farquhar, James Rainy.
Gavin, Michael (III. Hon.).
George, John Campbell.
Horn, John Fraser.
Jarvie, William Robert.
Jeffrey, Thomas.
Lochhead, Margaret Alexander.
Macalister, Robert Henry.
M'Farlan, Donald.
M'Michael, John.
M'Neil, John.
Main, Archibald Naismith.
Mann, John Charles (II. Hon.).
Middlemiss, Francis.
Murphy, Alexander.
Naismith, Robert.
Nicol, Roderick Macdonald (II. Hon.).
Pickering, Mabel King.

Rae, Peter.
Reid, John.
Robertson, Thomas Graham.
Rook, Thomas.
Runciman, James Watson.
Scott, Robert (Glasgow).
Shearer, John (Glasgow).
Spreull, George John.
Steel, James.
Stewart, John.
Stirling, Francis Purser Holbrooke (I. Hon.).
Taylor, David Gladstone (I. Hon.).
Taylor, Henry.
Tulloch, Arthur Penrhyn Stanley.
Tulloch, Robert.
Waddell, Peter Hately.
Workman, Winifred.

*April*, 1901.

Allan, William.
Anderson, John (Langside).
Anderson, John Dunlop.
Arnott, Annie Jane.
Barnes, Edgar.
Biggar, Mary Campbell.
Black, William Duncan Thomson.
Blair, Duncan.
Bowman, Archibald Allan.
Brechin, John Chalmers.
Brechin, Margaret Blackley.
Brown, Andrew.
Burns, Robert.
Burnside, Jessie.
Cameron, Mary Clow.
Carmichael, David Gordon.
Clark, Duncan Walker.
Clark, Henry Grindlay.
Colquhoun, John.
Cook, John.
Cowan, Arthur Aitken.
Cranston, Andrew.
Cromar, Frederick Gordon.
Cullen, Charles.
Cupples, Joseph.
Davidson, Francis.
Devine, James M'Donald.
Dickie, John.
Donald, William Buchan.
Duncan, Andrew Rae.
Dunlop, Archibald Hume.
Dunlop, Catherine Fraser.
Ewen, Christian.
Farish, Charles William.
Fletcher, Angus Peter.
Forrest, Louise Margaret.
Fraser, Isabella Milligan.
Frew, James Mair.
Fullarton, Sarah Morton.
Gibson, John.
Green, George.
Green, Janet.
Greer, Samuel.
Grieve, William Crawford.
Hamilton, Robert (Cleland).
Harley, Alexander Hamilton.
Harvie, Robert.
Henderson, William Watson.
Herriot, Jane Cumstie Williamson.
Hunter, Mary Violet.
Hutcheson, John.
Jackson, Robert.
Jeffrey, George Johnstone.
Johnson, Donald.
Jones, Elias Henry.
Kaye, John.
Kettle, Margaret Crow.
Killin, Margaret Montgomerie.
Latta, Mary Muir.
Lawson, Gavin.
Leitch, Donald.
Leitch, Neil.
Lindsay, Hilda Oliphant.
Lindsay, William.
Logan, Norman Russell.
M'Arthur, Peter Cunningham.
M'Bain, Elspeth.
M'Bride, William.
M'Bryde, John.
M'Callum, Dugald.
M'Culloch, Mary Malcolm.
M'Donald, Patrick Angus M'Gregor.
M'Fadyen, James.
M'Farlane, Margaret Conchie Raphael
Macfarlane, Robert.
Macgregor, Annie Murray.
M'Harg, James.
Mackay, Grace Christina.
Mackenzie, Alexander Ramsay.
Mackenzie, Peter Murchison.
M'Kerral, Andrew (II. Hon.).
M'Kerrow, Margaret Elizabeth.
M'Laren, Martin Campbell.
M'Lean, John (Wishaw).
M'Lelland, William.
Macleod, John Stewart.
Macmillan, Robert Alex. Cameron.
M'Murtrie, John Malcolm.
M'Phee, John.
Mair, Margaret.

Marshall, Peter.
Middleton, John Clark.
Miller, John (Beith).
Mitchell, Peter.
More, James William.
Muir, Euphemia Ellen Hunter.
Murray, Alexander.
Murray, Martin Ralston.
O'Sullivan, Nora.
Paterson, Marguerite Cunningham.
Patrick, Adam.
Rattray, Edward Rose.
Rawson, Walter Amos.
Reid, William Kirkpatrick.
Reynard, Marion Aiton Ballantyne.
Riddell, John.
Ritchie, James.
Robertson, Richard Dunn.
Rogerson, Andrew Willis.
Ross, Henry.
Ross, Jane Helen.
Routledge, Janet Stewart.
Roy, William.
Scott, Elizabeth Wilkie.
Scott, Jane M'Naught.
Scott, John Waugh.
Selfridge, John.
Sinclair, Mary Graham.
Stewart, Kenneth.
Strachan, William.
Stuart, Mary Isabelle Moody.
Thomson, David Alexander.
Thomson, Kyle.
Thomson, Robert Cleghorn.
Walker, James (Whiteinch).
Wallace, William.
Wardrop, Edward Hunter.
Watson, Donald Henderson.
Watt, Robert Dickie.
Watters, Alexander Marshall.
Wilkie, Helen.
Wilson, Isabella.
Wilson, Jeannie.
Wilson, William Scott Branks.

## NATURAL PHILOSOPHY.

*October*, 1900.

Baird, Annie Agnes.
Brash, John.
Buik, George.
Cameron, Thomas Bell.
Clark, James Miller (III. Hon.).
Gavin, Michael (III. Hon.).
Lightbody, Isaac Whiteford.
Macnab, William.
Mann, John Charles (II. Hon.)
Millar, George Smith.
Morison, Norman John.
Morton, David.
Nicol, Roderick Macdonald (II. Hon.).
Rankin, Jessie Deans.
Roberts, Eric James.
Robertson, Howard Hope.
Robertson, William.
Stirling, Francis Purser Holbrooke (I. Hon.).
Taylor, David Gladstone (I. Hon.).
Walker, William Lind
Wiseman, William Reid.

*April*, 1901.

Aird, William.
Anderson, John (Newmilns).
Ballantyne, Alexander.
Barnes, Edgar.
Bickett, Margaret Muir.
Brunton, David Stewart.
Burns, Robert.
Campbell, Daniel Kirkwood.
Cant, Thomas.
Chalmers, David Keir.
Chisholm, Alexander.
Clark, John Sawers.
Cook, Thomas Kinnear.
Craik, David.
Darroch, Neil Donald.
Davidson, James Allan.
Dewar, Robert Scott.
Farmer, Charles Blackwood.
Fletcher, Angus Peter.
Frew, John.
Hamilton, John M'Farlane.
Hamilton, William.
Henderson, Andrew.
Houstoun, Robert Alexander.
Hunter, James.
Jack, Robert.
Jackson, Robert.
Kerr, William (Beith).
Lakin, Alexander.
Lang, Archibald.
Lang, William.
Lindsay, Muriel Giffen.
M'Guire, Robert Clark.
Mackay, James Provan.
Mackenzie, Alexander Ramsay.
M'Kerral, Andrew (II. Hon.).

M'Laren, Archibald.
M'Laughlin, John.
M'Millan, John (Bonhill).
M'Shee, Andrew.
Macvea, Janet Annie.
Middlemiss, Francis.
Milne, Robert.
Mitchell, Peter.
Montgomery, David Lindsay.
Morison, Robert M'Kenzie.
Neilson, John.
Paterson, Donald.
Peebles, Thomas.
Picken, Agnes.
Richardson, John Macdonald.
Roy, William.
Skinner, Mary Anne Campbell.
Thompson, William Lindsay.
Thomson, David.
Tulloch, Robert.
Westwater, James.
Wilson, William Scott Branks.
Winning, Thomas.

### CHEMISTRY.

*October*, 1900.

Alexander Thomas.
Bain, John.
Brown, William (Fauldhouse).
Brunton, David Stewart.
Drew, Charles Milligan.
M'Callum, John Duncan.
Robertson, Berkeley Hope.
Turner, William Young.

*April*, 1901.

Baird, Annie Agnes.
Chalmers, David Keir.
Chisholm, Alexander.
Frew, John.
Gallagher, Mary Theresa.
Gillies, Daniel.
Greig, John Isdale.
Hunter, David Guthrie.
Jones, Owen Lloyd.
M'Shee, Andrew.
Paterson, Thomas (Blantyre).
Sinclair, James.
Stewart, John Henderson.

### ZOOLOGY.

*October*, 1900.

Baird, Annie Agnes.
Carrick, Peter.
Dewar, Robert Scott.
M'Kail, James.
M'Leish, David James.

### BOTANY.

*October*, 1900.

Dunn, John Shaw.
Hunter, David Guthrie.
Macdonald, Walter George.
M'Lean, Elizabeth Rankin.
Sutherland, Arthur William.

## *D.—HISTORY AND LAW.*

### HISTORY.

*October*, 1900.

Aitken, George.
Baird, James.
Duffy, Walter.
Gordon, Monica Mary.
Hair, John (Muirkirk).
Lamb, Agnes Charlotte.
Lindsay, William.
Mair, John (Paisley).
Walker, John (Glasgow).
Wilson, Alexander Robertson.

*April*, 1901.

Andrew, William Hunter.
Beaumont, George.
Biss, Evan Ebenezer.
Black, Norman Annandale.
Borland, Alexander.
Brown, William (Bothwell).
Brunton, David Stewart.
Cameron, Thomas Bell.
Clark, William.
Colquhoun, John.

Crawford, Hamilton.
Downie, Jemima Wright.
Dryer, Oliver.
Edgar, John Henderson.
Farish, Charles William.
Finlay, Archibald Barbour.
Fleming, Archibald.
Forbes, Augustine Wentworth Scudamore.
Fotheringham, James Boath.
George, John Campbell.
Hair, John (Thornhill).
Harvey, George Thomson.
Hay, John M'Dougall.
Henderson, Walter Lewis.
Hogarth, Catherine Carruth.
Houston, William.
Hudson, Alice Beatrice.
Hutcheson, John.
Hutchison, David M'Cowan.
Jeffrey, Thomas.
Kerr, William (Glengarnock).
King, Archibald.
M'Allister, George William.
M'Bryde, John.
MacDonald, William Elder.
M'Lellan, Neil.
Macleod, John Stewart.
MacPhail, Neil.
M'Pherson, Peter.
Marshall, Peter.
Moyes, James.
Neilson, James Arthur.
Paterson, Donald.
Paterson, Thomas Ure.
Quig, Gordon.
Rae, Peter.
Rae, Richard.
Rattray, Edward Boase.
Rawson, Walter Amos.
Rook, Thomas.
Ross, Jane Helen.
Smith, Robert Peden.
Spens, Walter Thomas Patrick.
Stewart, Matthew.
Strathern, Robert Laurie.
Swan, John Arbuckle.
Taylor, Henry.
Waddington, Cecilia Jane.
Wardrop, Edward Hunter.
Watson, James Gibb.
Watson, John Alexander.
Watters, Alexander Marshall.
Wilson, Harold.
Wilson, James.
Wright, George.

### CONSTITUTIONAL LAW AND HISTORY.

*April*, 1901.

Armstrong, Thomas.
Boyce, Claud Alexander.
Docherty, John.
Henderson, Robert.
Henderson, Walter Lewis.
Hume, James.
MacDonald, William Elder.
Macleod, Alexander.
Millar, William.
Mungo, David Brown.
Sneddon, Robert William.
Wishart, George Baird.

### ROMAN LAW.

*October*, 1900.

Riddell, Thomas Park.
Smith, John (Falkirk).

*April*, 1901.

Armstrong, Thomas.
Austin, James.
Bell, Walter William Aitken.
Boyce, Claud Alexander.
Brown, John Campbell.
Cranston, Andrew.
Crawford, Hamilton.
Henderson, Robert.
Henderson, Walter.
Hutchison, David M'Cowan.
Marr, James Henderson.
Menzies, Henry Lindsay.
Millar, Alexander.
Millar, William.
Robertson, James.
Rogen, Alfred Sands.
Ross, John Morison.
Scott, William.
Sneddon, Robert William.
Spens, Walter Thomas Patrick.
Thomson, Alexander Dunbar.
Thorne, Thomas Brown.

### EXAMINATION FOR CANDIDATES FOR THE ARMY.

IN LATIN.

*October*, 1900.—Graham, Nigel Carlyle.
*April*, 1901.—Fleming, Harry Hamilton.

IN ENGLISH.

*April*, 1901.—Fleming, Harry Hamilton.

IN MORAL PHILOSOPHY.

*October*, 1900.—Graham, Nigel Carlyle.

## PRELIMINARY EXAMINATION FOR DEGREES IN ARTS AND SCIENCE.

The following passed in the subjects indicated (L., Lower ; I., Intermediate ; H., Higher) :—

*October*, 1900.

Alexander, Richard Bryce Hubbard (L. Latin).
Allan, William (L. Greek).
Anderson, Alexander (English).
Anderson, Euphemia Logan Cairnie (H. Latin).
Anderson, John Dunlop (L. Latin).
Archibald, Constance Helen Margaret (German).
Armstrong, Robert Stirling (English, H. Latin).
Arneil, Loudon (H. Latin).
Atkinson, Gilbert (I. Math., H. Latin, H. Greek).
Auld, William (H. Greek).
Baillie, John (English, H. Greek, Dynamics).
Baird, Andrew Cumming (H. Math., H. Greek).
Barbour, Margaret (I. Math.).
Barnwell, Frank Sowter (H. Math.).
Barr, Mary Smith Gilmour (L. Latin).
Beaton, Alexander (I. Math., H. Latin, L. Greek, French).
Beckett, William (L. Latin).
Bell, John (H. Math., L. Latin).
Bell, Robert William (I. Math.).
Bell, William (H. Math., L. Latin).
Beveridge, James (L. Latin).
Biggar, Mary Campbell (H. Math., H. Latin).
Birnie, Robert (English, L. Latin).
Black, William Duncan Thomson (H. Latin, L. Greek).
Black, William Paterson (H. Latin, L. Greek).
Blair, James Wilson (French).
Blyth, Robert Oswald (H. Math.).
Borland, William Dunlop (H. Math., H. Latin).
Bowie, John (H. Math., L. Latin).
Brown, Alexander (H. Greek).
Brown, James Shaw (L. Latin, L. Greek).
Brown, John (Fauldhouse), (H. Math.).
Brown, John M'Murtrie (English, H. Math., L. Latin).
Buchanan, James Robertson (English, H. Latin, H. Greek).
Buchanan, Murdo (H. Math., L. Latin, L. Greek).
Cameron, Thomas Bell (L. Latin).
Campbell, George (L. Greek).

Campbell, Malcolm George (L. Latin).
Carmichael, Isabella (English, French).
Carmont, Elisabeth Mary Ursula (German).
Carslaw, Elizabeth Lochhead (English, L. Math., French).
Carson, Thomas Walker (L. Latin).
Chalmers, Maggie (German).
Chambers, Frances Sara (I. Math.).
Clark, George Frank (I. Math., H. Latin).
Clark, Henry Grindlay (English, H. Math., L. Latin, French).
Clark, Humphrey (L. Latin).
Clark, Mabel Beatrice (H. Latin).
Clark, Margaret Elizabeth (English).
Clark, Mary Kirkwood (French).
Conn, Robert (H. Latin).
Copland, John (H. Math.).
Cowan, Arthur Aitken (H. Math., H. Latin).
Cromar, Arthur Henry (L. Latin).
Cromb, Kate Stewart (English).
Crum, Walter Maclae (L. Latin).
Cullen, Charles (H. Math., L. Latin).
Cunningham, Andrew (H. Math., H. Latin, French).
Cupples, Joseph (H. Math., L. Greek, Dynamics).
Darroch, John Alister (H. Math.).
Davidson, Francis (L. Latin, L. Greek).
Davidson, James Allan (L. Latin).
Dawson, Archibald (English).
Dewar, Robert (H. Latin).
Dickie, James Black (Dynamics).
Dimmer, Alfred Henry (L. Math., L. Greek).
Dobbie, William (H. Math.).
Dobbie, William Daniel (I. Math.).
Dobson, James Ritchie (L. Latin).
Donald, Gavin M'Culloch (English, H. Math., L. Latin).
Donaldson, John (H. Math.).
Douglas, Thomas Logan (H. Greek).
Drape, Agnes Waugh (I. Math.).
Dudgeon, Peter (English, H. Math., L. Latin, Dynamics).
Duncan, Andrew Rae (H. Latin, L. Greek).
Dunlop, Hugh Morton (L. Latin, Dynamics).
Dunn, Theodore Douglas (H. Math., H. Latin, French, Dynamics).
Edward, Thomas David (H. Latin).
Falconer, John Alexander (H. Latin).
Farish, Charles William (H. Greek, Dynamics).
Ferguson, Hugh Dykes (H. Math., H. Latin, Dynamics).
Findlay, William Erskine (I. Math., H. Latin).
Fleming, Alexander (English).
Forrest, George Henry (L. Greek).
Forrest, Louise Margaret (H. Math., L. Latin).
France, George (H. Math., L. Latin).
France, John Galbraith (I. Math., H. Latin).
Frew, James Mair (English, H. Math., L. Greek, Dynamics).
Fukuzawa, Sampachi (H. Math.).
Fyfe, Henry Halcro (English, L. Latin).
Gardner, John Hyslop (H. Math.).
Gemmell, Elizabeth Leslie (I. Math.).
Gilbert, William John (L. Latin).

Gilchrist, James Albert (English, L. Math., H. Latin, L. Greek).
Gillan, William (English, H. Latin).
Gillies, Norman M'Leod (I. Math., L. Latin).
Gillon, Robert (English).
Good, John Binnie (English, H. Math., H. Latin).
Gordon, Donald Campbell Bryce (L. Latin).
Govan, William Mowat (English, I. Math.).
Graham, George Robert (H. Math., H. Latin).
Graham, John (Jamestown), (English, I. Math., L. Latin).
Graham, Seymour (H. Math.).
Grant, Jessie Elizabeth Gollan (H. Latin).
Gray, Jeanie Garland (English, French).
Gray, Robert (English, H. Math.).
Green, George (L. Greek, Dynamics).
Green, Janet (H. Latin).
Greer, Samuel (H. Latin).
Grieve, George (English, H. Latin, L. Greek).
Gullan, James Douglas Campbell (H. Latin, L. Greek).
Hair, Duncan Davidson (H. Greek).
Hall, Hugh Lang (H. Latin).
Halley, Matthew White (H. Math., Dynamics).
Hamilton, John (English, L. Latin, French).
Hamilton, Robert (English, H. Latin, Dynamics).
Hardie, William Towers (L. Greek).
Henderson James (L. Latin).
Hendrie, Leslie Thom (H. Latin).
Hill, Ella Smith (I. Math., H. Latin).
Hill, Thomas James (L. Latin, French).
Hislop, Frederick Laurence (H. Math., French, Dynamics).
Hogg, James (H. Latin).
Houston, William (H. Latin).
Houston, William Campbell (French).
Howat, William (Dynamics).
Howat, William Carrick (L. Latin).
Howden, James (English).
Hughes, Joan Dorothea (English, French).
Hume, James (I. Math.).
Hunter, Jennie Cameron (H. Latin).
Hunter, Jenny Gibson (H. Greek).
Hunter, John Mercer (H. Latin).
Hutchison, Alexander (English).
Hutton, Frederick Robt. Hughes (H. Math., H. Latin, H. Greek, French).
Irvine, Robert (H. Latin).
Isbister, Lucy Hay (H. Latin).
Jack, William (H. Latin).
Jackson, Robert (H. Latin, L. Greek).
Jarvie, William Robert (H. Latin).
Jeffrey, George Johnstone (H. Greek).
Keane, James (L. Latin).
Kellow, Henry Arthur (H. Math., H. Latin).
Kennedy, Donald Thomson (L. Latin).
Kerr, Norman Munro (L. Latin).
Kerr, William, Beith (L. Greek).
Ketchen, Marjory Ogilvy (English, I. Math., H. Latin, French, German).
Killin, Margaret Montgomerie (H. Latin).
Kirk, Margaret Mary (L. Latin, French).

Kirk, William Grant (English, I. Math.).
Kirkland, Catherine Galloway (French).
Kirkwood, James (I. Math., L. Latin).
Kirkwood, John (English, H. Math., Dynamics).
Lapsley, John (H. Math., H. Latin).
Lauder, Isa Esther (L. Latin).
Lawrance, Alexander (H. Latin, L. Greek).
Lawson, Gavin (I. Math., L. Greek).
Laxton, Thomas Carlyle (L. Latin).
Leitch, William (I. Math., L. Latin).
Lennox, William (H. Latin).
Lindsay, Hilda Oliphant (H. Greek).
Lindsay, Jessie Barr (H. Math., L. Latin).
Lobban, Charles Henry (English, H. Math., L. Latin, Dynamics).
Lochhead, John Hamilton Barr (H. Math., H. Latin).
Locke, William (English, L. Latin).
Logan, George Gourlay (L. Math., H. Latin, L. Greek).
Love, Arthur Patrick (English, H. Latin, L. Greek).
M'Arthur, Jane (H. Latin).
M'Arthur, Neil (H. Latin, Dynamics).
M'Arthur, Peter Cunningham (H. Latin, L. Greek, Dynamics).
M'Bain, Elspeth (L. Latin).
Macbeth, William Gilchrist (H. Math.).
M'Bride, William (H. Greek).
M'Callum, Dugald (H. Math., H. Latin, L. Greek).
M'Connachie, John Allan (L. Latin, Dynamics).
Macdonald, Allan (L. Math., H. Latin, L. Greek).
Macdonald, Donald, Glasgow (H. Math.).
Macdonald, Patrick Angus M'Gregor (Dynamics).
M'Dougall, Hugh (H. Latin).
Macdougall, Netta (H. Latin).
M'Elwain, James (Dynamics).
M'Farlane, Margaret Conchie Raphael (H. Math., L. Latin).
M'Gill, Mary Watson (L. Latin).
M'Gregor, Joseph (English).
MacInnes, Joseph (H. Greek).
M'Kechnie, Duncan (English, H. Math.).
M'Kechnie, Richard (English).
M'Kellar, John Claremont (L. Math.).
Mackenzie, Alexander (H. Latin).
Mackenzie, Alexander Ramsay (L. Latin).
Mackenzie, Archibald (English, I. Math.).
Mackenzie, Janet Miller (I. Math. H. Latin).
Mackenzie, Robert (L. Math.).
Mackenzie, William George (I. Math., French).
M'Kinlay, Robert (English, L. Greek).
M'Kinnell, John Scott (English, H. Latin, L. Greek).
M'Kinney, Alexander Doctor (H. Math., L. Latin).
Mackinnon, Ewen (L. Latin).
Mackinnon, Mary Isabella (French).
MacLaren, Archibald (L. Latin).
M'Laren, Duncan (English, L. Greek).
M'Laren, Martin Campbell (H. Latin, L. Greek, Dynamics).
Maclaurin, Margaret Smith (I. Math., H. Latin).
Maclean, Hector (H. Math.).
Maclean, Neil John (English, L. Latin).

Maclean, Wilfred Gerald (H. Math., L. Greek).
MacLellan, Neil (I. Math.).
M'Lelland, William (French).
Macleod, Alexander (H. Latin).
MacLeod, Donald (I. Math.).
Macmillan, Robert Alex. Cameron (H. Greek).
M'Murdo, James (H. Math., French).
Macnab, George (H. Latin).
M'Neill, Margaret (H. Math., H. Latin, French).
Macnicol, Archibald Osborne (English).
Macphie, Donald (H. Math., L. Latin, Dynamics).
M'Vittie, George (H. Math.).
Marshall, Barbara Carswell (H. Math., L. Latin, Dynamics).
Masterton, Jessie Vallance (H. Math., L. Greek).
Matheson, John (English).
Maxwell, John Maxwell Scott (H. Math.).
Menzies, James (L. Greek).
Merry, Mary (H. Latin).
Middleton, John Clark (H. Latin, H. Greek).
Milburn, Walter (English).
Millar, William (H. Latin).
Millen, James White (English, L. Math., H. Latin, French).
Miller, James (English, H. Latin, L. Greek, Dynamics).
Miller, John, Motherwell (L. Latin).
Miller, John Macnair (H. Math., H. Latin).
Mitchell, George (H. Latin).
Moir, Hugh Walker (L. Latin).
Montgomery, Archibald (I. Math.).
More, James William (L. Greek).
Morrison, John (L. Latin).
Morrison, John Coutts (H. Math., L. Latin).
Morrison, Lina (H. Math.).
Muir, Euphemia Ellen Hunter (I. Math.).
Muir, George (L. Latin).
Muir, Morton Mungo (English, H. Math., H. Latin, French).
Murchie, Robert Welch (H. Math., L. Greek).
Murdoch, Mary (English, H. Math., L. Latin).
Murphy, Alexander (H. Greek).
Murray, Charles Robinson (H. Greek).
Murray, Martin Ralston (English, H. Math., H. Latin, French).
Nelson, Charles Gilbert (H. Greek).
Nelson, Isabella Ure (French).
Nicholson, Clark (H. Greek).
Nolan, Kathleen Mary (H. Math., L. Latin, Dynamics).
O'Beirne, Neil Hay (L. Latin).
Orr, John Boyd (H. Latin, French).
Orr, Robert Alexander (English).
O'Sullivan, Nora (English, H. Math., L. Latin, French).
Paterson, Donald (L. Latin).
Paterson, George (H. Latin, L. Greek).
Paterson, Jeanie (I. Math.).
Paterson, John Neil MacLeod (H. Latin, L. Greek).
Paterson, Margaret Jessie (English, L. Latin).
Paterson, Neil MacLeod (L. Greek).
Paterson, Thomas Ure (L. Greek).
Patience, Edward (English, H. Math., L. Latin).

Patrick, Samuel Barr (I. Math.).
Paul, Agnes Jane (I. Math., H. Latin).
Pennycook, George (H. Math., L. Latin).
Percy, Dugald Ferguson (English, H. Math., H. Latin, H. Greek, French).
Philip, Annie Glenday (H. Greek).
Porter, John (H. Math.).
Primrose, Clive Macfarlane (H. Math., Dynamics).
Quig, Gordon (I. Math.).
Rae, James Barr (English, I. Math., L. Latin).
Rankin, Adam Aird (I. Math., L. Latin).
Rankin, Thomas Thomson (H. Latin, L. Greek).
Reed, John William (English).
Reid, Marion Young (H. Greek).
Reynard, Marion Aiton Ballantyne (H. Math., L. Latin, German).
Rice, Charles Macintyre (I. Math., L. Latin).
Ritchie, Robert (I. Math.).
Roberts, Cyril Humphrey (German).
Robertson, James (H. Latin).
Robertson, Janet Torrance (H. Math.).
Robertson, John Anderson (English, L. Latin).
Robertson, Richard Dunn (H. Math., H. Latin, Dynamics).
Rogerson, John Stewart (L. Latin).
Ronald, William Elder (I. Math., H. Latin).
Ross, Henry (English).
Routledge, Janet Stewart (H. Latin).
Rowse, Harold Charles (English, L. Math., H. Latin, H. Greek).
Russell, Albert (I. Math., H. Greek, French).
Sandilands, James Hamilton (English, H. Math., L. Latin).
Scott, John M'Naught (H. Math., H. Latin).
Scoular, Andrew Findlay (H. Math., H. Latin).
Shanks, Andrew Ferrier (French, Dynamics).
Shearer, John, Armadale (H. Latin).
Shennon, Malcolm (L. Math., H. Greek).
Simpson, James Alexander (English, H. Latin, L. Greek).
Sinclair, Donald (L. Latin).
Smith, Walter Crawford (I. Math., L. Latin).
Sommerville, Robert (English, I. Math.).
Sprunt, Annie Crichton (I. Math., L. Latin).
Stark, James (L. Math., L. Latin).
Steele, James Edward (French).
Steven, John Fraser (English, H. Math., H. Latin, L. Greek).
Steven, Margaret Service (I. Math.).
Stich, Hans Müller (Dynamics).
Swan, John Arbuckle (H. Math., H. Latin, L. Greek).
Thomson, John Archibald Glover (H. Greek).
Thomson, Mary Emilie (H. Latin).
Thomson, Robert Cleghorn (English, H. Math., H. Latin, L. Greek).
Todd, Robert (English, I. Math., L. Latin, L. Greek).
Towers, Thomas Dundas (H. Math., H. Latin).
Tulloch, James (English, L. Latin).
Waddell, Bryce Martin (Dynamics).
Waddington, Cecilia Jane (L. Latin).
Walker, James, Whiteinch (English, L. Latin, Dynamics).
Walsh, Albert George (L. Latin, L. Greek).
Wardrop, Edward Hunter (L. Latin).
Watt, James (English).

Watt, Robert Dickie (H. Latin).
Watt, Thomas Morrison (French).
Weir, Marion (I. Math).
Weller, Henry Owen (French, Dynamics).
White, Thomas (English, H. Math., L. Latin).
Whiteford, Matthew (French).
Whitehead, John (Dynamics).
Whyte, Agnes (L. Math.).
Wilson, Andrew (English, French).
Wilson, Douglas Hamilton (French).
Wilson, James Lauder (H. Math.).
Wilson, Jeannie (I. Math.).
Wilson, Mary Helen Renwick (I. Math., H. Latin).
Wordie, William (H. Latin, H. Greek).
Wright, Charles M'Ghie (H. Math.).
Wright, John Murray (H. Latin).
Young, Agnes Smith (H. Math., French).
Young, Alexander Sutherland (French).
Young, Mary M'Cole (H. Math., L. Latin, French).
Young, William (H. Math.).
Younger, Annie (I. Math., L. Latin, French).

### *April*, 1901.

Adamson, Mary Agnes (H. Greek).
Alexander Richard Bryce Hubbard (L. Latin).
Allan, Dorothy Spence (English, H. Math., L. Latin, French).
Anderson, John M'Kinnon (L. Latin).
Aranghy, Gabriel Nicolas (English, French).
Archibald, Robert Douglas (H. Math., Dynamics).
Armstrong, Robert Stirling (L. Math., H. Greek).
Ballantyne, Joan Brown (H. Math., L. Latin).
Barbour, Margaret (H. Math., L. Latin).
Barbour, William (L. Latin).
Barclay, Noel M'Eachran (H. Math., H. Latin, French).
Barnwell, Frank Sowter (English, L. Latin, Dynamics).
Barrie, Mary (H. Math., L. Latin, French).
Bayne, Alexander Robert (English, H. Latin, French).
Bell, John (L. Latin, Dynamics).
Bell, William (L. Latin, Dynamics).
Biggar, Matthew (English, H. Math., H. Latin, H. Greek).
Blackstock, Charles Hugh (English, H. Math., L. Latin, L. Greek).
Blackwood, Alexander Low (H. Math., Dynamics).
Blair, James Wilson (H. Latin).
Blyth, John (H. Math., L. Latin).
Blyth, Robert Oswald (English, H. Greek, French).
Bondegaard, Ejnar (English, H. Math., German, Dynamics).
Bostock, William Henry Dorman (English, H. Math., French, Dynamics)
Bow, Jean Wilson (English, French).
Bowie, John (L. Latin).
Boyle, David (L. Math.).
Brodie, George Lawson (L. Math.).
Brown, Dorothy Beatrice (English, H. Math., L. Latin, German).
Brown, James Robert (French).
Brown, John M'Murtrie (L. Latin, French, Dynamics).
Cameron, John (English, I. Math., H. Latin, L. Greek).
Cameron, Thomas Bell (H. Latin).

Cameron, Thomas Moore (Dynamics).
Campbell, Catherine Love (I. Math., H. Latin, French).
Campbell, Malcolm George (L. Latin).
Campbell, Robert (English, French).
Carslaw, Elizabeth Lochhead (I. Math., H. Latin).
Clark, Jasper (English, H. Math.).
Clark, Margaret Elizabeth (French).
Coats, James Richardson (English, French).
Connor, Alexander Gibson (L. Latin).
Cook, Adam M'Gown (L. Latin, French).
Copland, John (English, H. Math.).
Couper, Alexander Russell (H. Math., Dynamics).
Cousens, Henry James Morrison (English, H. Math., French, Dynamics).
Craig, George Mather (English, Dynamics).
Cromar, Arthur Henry (H. Latin).
Cromb, Kate Stewart (French).
Darroch, John Alister (I. Math.).
Davidson, Dugald (L. Math., L. Latin).
Davidson, Francis (L. Greek).
Davidson, James Allan (L. Latin).
Dawson, Archibald (H. Math.).
Deans, Mary Kirkwood (L. Latin).
Deans, William Smellie (H. Math., L. Latin).
Dick, James Cowie (English, H. Latin, H. Greek).
Dick, Jessie Fairley (English).
Dick, William Riddell (L. Latin).
Dickson, John Robert (I. Math., H. Latin, French).
Dobbie, William Daniel (English, I. Math., Dynamics).
Dobson, James Ritchie (L. Latin, Dynamics).
Donald, Andrew (H. Math., L. Latin, French).
Donald, Gavin M'Culloch (L. Latin, Dynamics).
Donaldson, John (Dynamics).
Douglas, John Thomas (English).
Downes, Arthur Drummond (English, H. Math., L. Latin, German).
Downie, Agnes Hamilton (English).
Downie, Catherine (H. Latin).
Dunlop, Hugh Morton (H. Latin, Dynamics).
Dunlop, Jane Willock (I. Math., L. Latin).
Dunn, Herbert (I. Math.).
Easton, Frank Stewart (H. Math., Dynamics).
Easton, Mary Rodgerson (L. Latin).
Edward, Jeanie (L. Latin).
Egans, James (L. Latin).
Ellis, Thomas (I. Math., French).
Ewen, Christian (H. Latin).
Fairley, Archibald (English, H. Math., Dynamics).
Falconer, John Alexander (I. Math.).
Ferguson, James (I. Math., L. Latin).
Findlay, William Erskine (Dynamics).
Finlayson, Elizabeth Campbell (French).
Forrest, George Henry (English).
Forster, Marion Carrick (English).
Fotheringham, John Gillies (L. Latin).
France, George (H. Latin, L. Greek).
France, John Galbraith (H. Greek).
Fraser, William (English, L. Math.).

Fraser, William Colquhoun (L. Latin, L. Greek).
Fukuzawa, Sampachi (English. H. Math., Japanese, Dynamics).
Fulton, William Maxwell (H. Math., H. Latin, L. Greek).
Fyfe, Henry Halcro (I. Math., L. Latin).
Galbraith, Annie Isabel (L. Latin).
Galbraith, William Scott (L. Math.).
Gardner, John Hyslop (English).
Garvan, Marion Elizabeth (English, L. Math., L. Latin, French).
Gilbert, William John (L. Latin, L. Greek).
Gillies, Norman M'Leod (I. Math., L. Latin).
Gillon, Robert (English).
Glen, Thomas Stobo (English, I. Math., H. Latin, L. Greek).
Good, John Binnie (French, Dynamics).
Gordon, Albert William (English).
Gordon, Clementina Mary (English, L. Math., French).
Gordon, Donald Campbell Bryce (English, I. Math., L. Latin).
Gordon, James (English, I. Math., L. Latin).
Govan, William Mowat (L. Latin).
Graham, George Robert (Dynamics).
Graham, James (English, H. Math., H. Latin).
Graham, John, Jamestown (L. Latin, French).
Graham, Rachel Millar (I. Math.).
Grahame, John Alexander (English).
Gray, Agnes Paterson (English, French).
Gray, Jeanie, Garland (L. Math., H. Latin).
Gray, Robert (L. Latin, Dynamics).
Haddow, Hugh Reid (H. Math.).
Haggie, Robert Waldie (English, L. Latin).
Halley, Matthew White (English).
Hamilton, John (I. Math., L. Latin).
Harrison, Rhoda Gertrude (H. Math., H. Latin, French).
Hartley, Richard Frederick (L. Latin).
Hartley, Sidney (English, H. Math.).
Harvey, James Lindsay (English, L. Latin).
Henderson, James (L. Latin).
Henderson, Samuel Leslie (English, L. Latin).
Hendry, John M'Lean (L. Latin).
Hendry, Margaret (I. Math., L. Latin).
Hereford, William Roger (Dynamics).
Hodge, Harry Fairlie (English, H. Math., Dynamics).
Hogg, James (H. Latin, Dynamics).
Holmes, Mary Love (English, French).
Hudson, Rose Isobel (English, H. Math., French, German).
Hughes, Joan Dorothea (L. Latin).
Hunter, Helen Mackintosh (English, French).
Hunter, John Maurice (English).
Hunter, Thomas Downie (English).
Jack, John Niven (French).
Jackson, Robert (H. Greek).
Johnstone, William George (English).
Kajima, Tatsuzo (English, H. Math., Japanese, Dynamics).
Keane, James (English, I. Math., L. Latin).
Kellow, Henry Arthur (Dynamics).
Kerr, John (English, H. Math., L. Latin, French).
King, Margaret (L. Latin).
Kirk, Margaret Mary (English, L. Latin).

Kirk, William Grant (H. Latin, L. Greek).
Kirkwood, James (English).
Lamb, Jessie Fletcher (H. Latin).
Lapsley, John (Dynamics).
Law, John Bell (English).
Leitch, William (I. Math.).
Levine, Rachel (I. Math.).
Lindsay, Dorothy Elizabeth (English, H. Math., H. Latin, French).
Lindsay, Euphemia (H. Latin).
Lindsay, Robert Robertson (H. Math., L. Latin).
Lochhead, John Hamilton Barr (Dynamics).
Love, Arthur Patrick (I. Math.).
Macalpine, Alice Hilda (H. Math., H. Latin).
M'Alpine, Archibald (English, I. Math., L. Latin).
M'Arthur, Alexander (L. Latin).
Macbeth, William Gilchrist (H. Math., Dynamics).
M'Callum, Dugald (L. Greek).
M'Clements, Robert Alexander (H. Latin, Dynamics).
M'Connachie, John Allan (H. Latin).
MacConnell, John Alexander (English, French, Dynamics).
M'Cracken, Maurice James (English, H. Latin, H. Greek).
M'Cracken, Winnie Jane (English, H. Math., H. Latin, German).
M'Creath, James Fergusson (H. Math., H. Latin).
M'Culloch, Finlay (H. Math., H. Latin, Dynamics).
M'Culloch, Jeannie Cowan Barr (L. Math.).
Macdonald, Crissibelle (L. Math., H. Latin).
Macdonald, Donald, Glasgow (L. Latin, French).
Macdonald, Elsie Fraser (English, H. Math., H. Latin, French).
Macdonald, Janet Sinclair (French).
M'Donald, Roderick Alexander (L. Latin).
MacDonald, Ronald (H. Math., L. Latin).
Macdougall, Netta (I. Math.).
Macfadzean, James (English, H. Math.).
Macfarlane, John (L. Latin).
Macfarlane, Mary (I. Math., L. Latin, French).
Macfarlane, Peter Hill (English).
M'Gill, Martha (H. Latin).
MacGillivray, James Stewart (English, H. Latin, H. Greek, French).
Macgregor, James (English, H. Math., H. Latin, H. Greek, French).
M'Intyre, John (English).
M'Intyre, Malcolm (English, H. Math., L. Latin, French).
Mackay, Alexander (H. Latin, Dynamics).
M'Kay, Henry (H. Latin).
Mackay, Joseph (English, I. Math., French).
M'Kechnie, Duncan (L. Latin, French, Dynamics).
Mackenzie, Alexander Ramsay (H. Latin).
Mackenzie, Archibald (H. Math., French).
Mackenzie, William George (H. Math., L. Latin).
M'Kinlay, Robert (L. Math., L. Latin).
Mackinnon, Ewen (I. Math., H. Latin).
MacLachlan, Gilbert Connal (English, H. Latin).
M'Laren, Duncan (H. Math., H. Greek).
Macleod, John Matheson (L. Math., L. Latin).
MacLeod, Neil (English, I. Math., L. Latin).
M'Millan, Malcolm (Dynamics).
M'Millan, Robert Kerr (English, L. Latin).

M'Nab, James (English, H. Math., Dynamics).
Macnicol, Archibald Osborne (L. Latin).
M'Ouat, Alexander (English, I. Math.).
Macphie, Donald (L. Latin).
Macrae, Malcolm Beaton (English, I. Math., L. Latin).
M'Vicar, Angus John (H. Greek).
M'Vittie, George Boa (Dynamics).
Main, David Williams (H. Math., H. Latin).
Makin, Catherine Mitchell (English).
Matheson, John (English, L. Latin, Dynamics).
Matheson, Margaret (H. Latin).
Maxwell, James (L. Math., L. Latin).
Maxwell, John Maxwell Scott (I. Math., Dynamics).
May, Constance (English, H. Latin, Dynamics).
Menzies, James (English, I. Math., H. Latin).
Merry, Mary (L. Math.).
Milburn, Walter (L. Latin).
Millar, Samuel (English, French).
Milligan, John Donald (H. Math., L. Latin).
Milne, Helen Young (H. Math., L. Latin).
Milne, James (L. Latin).
Mitchell, Mary Dunn (I. Math., L. Latin, French).
Moffat, Jessie (English).
More, James William (L. Greek).
Morison, Janie Mitchell Lyle (English, French).
Morison, Winifred Dougall (English, L. Latin, French).
Muir, Margaret Glendinning (English, H. Latin, French).
Muir, William (English, H. Math., H. Latin).
Napier, Myra Jane (L. Math.).
Neilson, Ian Darroch (English, I. Math., H. Latin, H. Greek, French).
Nelson, Isabella Ure (H. Math., French).
Orr, Andrew (English, H. Latin, French).
Paterson, Andrew (English).
Paterson, Jeanie (H. Math., L. Latin, French).
Patience, Edward (H. Latin, Dynamics).
Pearson, Margaret Hunter (English, H. Math., H. Latin, German).
Philip, Annie Glenday (H. Math.).
Pitcairn, Arthur (English, H. Latin).
Porteous, William Manson (English, I. Math., L. Latin, French).
Porter, John (H. Math., L. Latin).
Primrose, Clive Macfarlane (L. Latin).
Rankin, James Sabiston (English).
Reid, John (H. Latin, L. Greek).
Reid, Thomas (H. Math., L. Latin, Dynamics).
Rice, Charles Macintyre (H. Math., L. Latin).
Ritchie, Robert (German).
Roberts, Cyril Humphrey (English, H. Math., German, Dynamics).
Robertson, Grace (English, I. Math., H. Latin, French).
Robertson, John Anderson (Dynamics).
Robertson, John M'Kellar (English).
Robertson, Margaret Wilson (H. Math., H. Latin).
Robertson, Muriel (English, I. Math., L. Latin, French).
Rodger, David Brown (L. Latin).
Rodger, John Leitch (English, H. Math., L. Latin).
Ross, Alexander David (L. Latin, French, Dynamics).
Russell, Albert (English).
Russell, James Gilchrist (English, H. Math., H. Latin).

Russell, Thomas (H. Math., L. Latin, L. Greek).
Sanders, Helen (I. Math., L. Latin).
Satow, Kouji (Japanese).
Scott, James Edward (H. Math.).
Shanks, Andrew Ferrier (English).
Shanks, Thomas (L. Latin).
Sievwright, John Smith (I. Math.).
Simpson, Thomas Paul (English, I. Math.).
Sinclair, Donald (L. Latin).
Sinclair, Mary Graham (German).
Smith, Donald, Glasgow (I. Math.).
Smith, Isabella Robson (L. Math.).
Smith, Walter Crawford (I. Math.).
Sommerville, William (English, L. Latin, French).
Sprunt, Annie Crichton (H. Math., L. Latin).
Stark, James (English, H. Latin).
Stevenson, Elsie Robertson (English, H. Math., H. Latin, French).
Stevenson, James (English, L. Math., French).
Stewart, Clementina Mitchell (H. Latin).
Stewart, James (I. Math., L. Latin).
Stewart, Jane Gray (L. Latin).
Stewart, John William (English, L. Latin).
Stirling, Violet Binning (H. Latin).
Stirling, William Miller (English).
Stratton, Annie (English, I. Math., French).
Sturgeon, John (English, H. Math., H. Latin, French, Dynamics).
Sutherland, Maggie Millen Jeffs (I. Math., German).
Sutherland, Thomas (English, L. Math., L. Latin, L. Greek).
Swan, William Marion (English, H. Math., H. Latin, H. Greek, Dynamics).
Thomson, James (L. Math., L. Latin).
Thomson, John M'Phail (English, H. Math., L. Latin, French).
Thomson, Robert Cleghorn (H. Greek).
Todd, Robert (H. Math., H. Latin).
Tulloch, James (English, Dynamics).
Tulloch, James Allan (I. Math., L. Latin).
Tulloch, Robert (L. Latin).
Walker, James, Larkhall (I. Math., L. Latin).
Walsh, Albert George (L. Latin, L. Greek).
Watson, Hugh (L. Math. H. Latin).
Watson, John Charles (H. Math., H. Latin, H. Greek).
Weller, Henry Owen (H. Math.).
White, James Hanline (English, I. Math., L. Latin, French).
Whitehead, John (French).
Whitson, Edith Mary (English, French).
Whytock, James (I. Math.).
Wilson, Andrew (H. Math., L. Latin).
Wilson, Christian Alice (I. Math., L. Latin).
Wilson, James Lauder (L. Latin, Dynamics).
Wilson, Kate (L. Greek).
Windle, Margaret Laura (English).
Young, Agnes Smith (English, L. Latin).
Young, John (French).
Young, William, Stevenston (L. Latin).
Young, William, Perth (English, L. Latin).
Younger, Annie (L. Latin).
Yuille, William (I. Math., L. Latin).

## PRELIMINARY EXAMINATION FOR DEGREES IN MEDICINE.

The following passed in the subjects indicated:

*October*, 1900.

Adamson, Wallace (English, Math.).
Allan, George Allison (Latin).
Allison, William Walter (Greek).
Brown, Alexander (Math.).
Campbell, William Archibald (English, Math., French).
Cassels, Effie (French).
Clark, Donald (French).
Clark, Jasper (English, Math.).
Coats, George (English, French).
Crawford, Arthur Muir (English, Math., French).
Crawford, Robert Johnstone (Math.).
Craig, David (English, French).
Dempster, Harold Windley (Latin, Math.).
Dunbar, Eric (English).
Ferguson, Alexander Burns (English).
Ferguson, William Martin (English).
Findlater, Alexandra (English, Latin, Math., French).
Fleming, Matthew Hamilton (English).
Forrest, Thomas Henderson (Math., Greek).
Garrand, Andrew Ford (French).
Georgeson, James Wilfred (Greek).
Gilbert, William (English, Math.).
Grant, Percy Frederick (English, Math.).
Harbinson, Josiah (English, French).
Harkin, Thomas (French).
Harvey, Mervyn Buchanan (English, Latin, Math., French).
Hunter, Jane (English, French).
Jack, William Boyd (Latin).
Jackson, John Marie (English).
Jones, Catherine Daisy Langley (English, French).
Logan, George Hugh (English, Latin, Math., French).
M'Dougal, Alfred Edwin (Math.).
M'Ewan, Duncan (Latin).
Macintyre, John (English, Latin, Math., French).
M'Kellar, William Anderson (English).
Mackenzie, Murdo Duncan (Latin, Math., Greek, French).
Martin, Francis William (English).
Miller, William (English).
Milligan, Henry Joseph (Math.).
Morrison, Kenneth (English Latin, Math., Greek).
Naismith, Andrew (Math.).
Naismith, Archibald (English, Latin, French).
Oswald, John (Greek).
Paul, James (English, Math.).
Reid, Daniel M'Kinlay (Latin, Greek).
Reid, John (Latin).
Scott, William Wilkie (Latin, Math.).
Smith, James Anstruther (French).
Speirs, Alexander (Greek).
Stewart, Daniel (Latin).
Stewart, Jeanie Hinshaw (English).

Strain, Thomas (English, Latin, Math., French).
Thom, Thomas (Greek).
Thomlinson, Chrissie Gibson (Latin, Math.).
Wilson, William Alexander (Math., French).
Wilson, William Mitchell Turner (English).
Wylie, James Aitken (English).

*April, 1901.*

Aitchison, Archibald (English, Math., Latin, French).
Allison, William Walter (Math., Latin).
Anderson, James Montgomery (English, Math., Latin, French).
Atkinson, John (Math., French).
Auld, Charles Logan (French).
Barr, James Starke (English, Latin).
Blair, William (English, Math.).
Brownlie, Arthur William (English, Latin).
Buchan, Martha Maclean (English, French).
Cassels, Effie (French).
Cassidy, Matthew Thornton (English).
Cluckie, Alexander Beck (English, Math., Latin, French).
Coggans, James Joseph (Latin).
Crawford, Arthur Muir (Latin).
Dewar, Gilbert Taylor (Math.).
Dick, Alexander (English, Math., Latin, French).
Dunbar, James (English, Math., Latin, French).
Eadie, Alexander Wylie (English, French).
Eaves, James (English, Math., Latin, French).
Fairley, David (English).
Fleming, Matthew Hamilton (French).
Fleming, Thomas Louden (English, Math., Latin, Greek).
Galbraith, Samuel Nichol (English, Latin, French).
Georgeson, James Wilfred (English, Math., Latin).
Gilbert, William (Latin, French).
Granger, Henry Maxwell (English, Math.).
Grant, Percy Frederick (Latin, French).
Gray, Arnold Harris (English, Math., Latin, French).
Griffiths, John Philip (English, Math., Latin).
Gudgeon, Robert Ralston Macintosh (English, Latin).
Guthrie, Robert Neil (English, Math., Latin, French).
Harbinson, John (English).
Harkin, Thomas (English, Math., Latin).
Higgins, Henry Gilbert (English, Math., Latin, French).
Hird, Annie Rennie (Math., Latin, French).
Hogg, Archibald (English, Math.).
Keys, John (English, Math., Latin, French).
Lawson, William Malcolm (French).
M'Call, John (English).
M'Clintock, Thomas Andrew (English, Math., Latin, French).
M'Cowat, Robert Harold (English).
M'Gilvray, John Robert (English, Math., Latin, French).
Mackay, Angus Cameron (English).
M'Kellar, William Anderson (English, Latin).
Mackenzie, Thomas Cooper (English, Math., Latin, French).
M'Lachlan, Allison David (English, Math.).
Macquarie, Charles James Colquhoun (English, Math., Latin, German).
Marshall, Robert (English, Math., Latin, French).
Miller, Allan Frederick (English, Math., Latin, French).

Miller, John (English, Math., Latin, Greek).
Miller, William (English, Latin).
Mitchell, Robert Wright (English, Math., Latin, French).
Moir, Hugh Walker (English, Math., French).
O'Kelly, Robert (English, Math., Latin, French).
Oswald, John (English, Math., Latin).
Paul, James (Latin).
Ramsay, Joseph Ley (English, Math., French).
Robertson, James Henry Anderson (English, Math., Latin, French).
Robertson, Robert Charles (Latin).
Rodger, Murdoch Mann (English, Math., Latin, French).
Rutherfurd, Margaret Elizabeth (English, Math., Latin, French).
Scott, George Waugh (English, Math.).
Scott, Robert (English).
Smith, James Anstruther (French).
Smith, Thomas Baillie (English, Math., Latin, French).
Stewart, Edward Ernest (Latin, French).
Stewart, Jeanie Hinshaw (Math.).
Stewart, William Ballantine (Latin).
Stewart, William Loudon (Math.).
Tate, David Laurence Alexander (English, Math., Latin, French).
Thompson, John Balmain (Math.).
Turnbull, Martin (English, Latin).
Walker, John Morris (English, French).
Watson, Tom Paul (English, Math., Latin, French).
Weir, John (French).
Williams, David John (English, Math., Latin, French).
Wilson, George (Mathematics).
Wilson, William Mitchell Turner (Math., Latin, French).
Wylie, James Aitken (Math., Latin).
Yardumian, Garabed Yeghia (English, Latin).

## BURSARY EXAMINATION.

*October*, 1900.

The figure (2) denotes students of the second year.

The following are the first fifty-two names in the order of merit, viz.:—

1. Robert Harvie, High School, Glasgow, } Equal.
2. Dugald Ferguson Percy, St. John's Grammar School, Hamilton, } Equal.
3. Adam Patrick, Greenock Academy.
4. William Buchan Donald, High School, Glasgow.
5. Robert Nicol Cross, Hamilton Academy.
6. Andrew Hutchison, Pupil Teachers' Institute, Glasgow.
7. Thomas David King Murray, High School, Glasgow.
8. John Miller, Spier's School, Beith.
9. Thomas Duncan, High School, Stirling.
10. Robert Alexander Houston (2), Hillhead Public School, Glasgow.
11. Elias Henry Jones, High School, Glasgow.
12. William Miller, Hutchesons' Grammar School, Glasgow.
13. Neil M'Arthur, Whitehill Public School, Glasgow.
14. Margarette Cunningham Paterson, Whitehill Public School, Glasgow.
15. John Dunlop Simpson, Hutchesons' Grammar School, Glasgow.
16. Andrew William Rogerson, High School, Glasgow.
17. Norman Russell Logan (2), High School, Arbroath.
18. Archibald Allan Bowman, Spier's School, Beith.
19. John Baillie, Hutchesons' Grammar School, Glasgow.

20. Annie Murray MacGregor, Girls' High School, Garnethill, Glasgow.
21. Theodore Douglas Dunn, Pupil Teachers' Institute, Govan.
22. Edgar Barnes, Whitehill Public School, Glasgow.
23. James Edward Scott, Inverness College, and Blairlodge, Polmont.
24. Charles William Lamb (2), Pupil Teachers' Institute, and Church of Scotland Training College, Glasgow.
25. George Johnstone Jeffrey, Alloa Academy.
26. David M'Millan (2), Dumfries Academy.
27. James Hutcheson Coulthard (2), Paisley Grammar School.
28. John Clark Middleton, Woodside Public School, Glasgow.
29. Andrew Cumming Baird, Airdrie Academy.
30. Clark Nicholson, Glasgow Academy.
31. Alexander Murphy (2), Lanark Grammar School.
32. James Miller, Pupil Teachers' Institute, Glasgow.
33. Thomas Logan Douglas, High School, Falkirk.
34. James M'Fadyen, Pupil Teachers' Institute, Glasgow.
35. Alexander Cupples Russell, High School, Glasgow.
36. Alexander Brown, Glasgow Academy.
37. Marion Young Reid (2), Girls' High School, Garnethill, Glasgow.
38. George Green, Pupil Teachers' Institute, Glasgow.
39. William Brown, Paisley Grammar School.
40. Alexander Murray, Aberdeen Grammar School.
41. Archibald Hume Dunlop, Pupil Teachers' Institute, Glasgow.
42. John Alexander Findlay, Kelvinside Academy, Glasgow.
43. Frederick Robert Hughes Hutton, Glasgow Academy.
44. Robert Scott (2), Allan Glen's School, and Church of Scotland Training College, Glasgow.
45. James Robertson Buchanan, Paisley Grammar School.
46. James Mair Frew, Galston Public School.
47. John Tinto, Allan Glen's School, Glasgow.
48. Joseph Cupples (2), Airdrie Academy, and Free Church Training College, Glasgow.
49. James William Moir, Dunoon Grammar School, and Hutchesons' Grammar School, Glasgow.
50. Thomas Thomson Rankin, Hutchesons' Grammar School, Glasgow.
51. Robert Alex. Cameron Macmillan, High School, Glasgow.
52. John Brown Stephen, Hutchesons' Grammar School, Glasgow.

## *UNIVERSITY PRIZES.*

### I.—FOR ESSAYS.

1. The EWING GOLD MEDAL, for the best Essay on "James I. of Scotland."

James Brunton Galbraith, Glasgow, } Equal.
William MacDougall, Paisley, }

2. The HENDERSON PRIZE OF TWENTY GUINEAS, for the best Essay on "The Principle of Protestantism."

John Scoular Thomson, M.A., Kingarth, Bute.

3. A HENDERSON PRIZE OF TEN GUINEAS, for the second best Essay on the same subject.

William Fulton, M.A., B.Sc., Uddingston.

4. The DOBBIE SMITH GOLD MEDAL, for the best Essay on any Subject within the limits of the Science of Botany, accompanied by an illustrative series of Macroscopic and Microscopic Specimens.

Daisy Annabella Murdoch Clark, B.Sc., M.B., Glasgow.

## II.—FOR EXAMINATIONS.

5. An ARNOTT PRIZE OF FIFTEEN POUNDS, for an Examination in General Physics, open to Students of the first and second years of their Medical Studies.

William Blair Morton Martin, Glasgow, } Equal.
John Logan Stewart, M.A., Lennoxtown, }

6. An ARNOTT PRIZE OF TWENTY-FIVE POUNDS, for an Examination in Physiological Physics, open to Students of the third and fourth years of their Medical Studies.

Joseph White, M.A., B.Sc., Glasgow.

7. The FINDLATER SCHOLARSHIP PRIZE, VALUE THIRTY-EIGHT POUNDS, for Examination in the Subjects for the Degree of B.D.

Hector William Mackay, M.A., Rogart, Sutherlandshire.

8. The JAMIESON PRIZE, VALUE TEN POUNDS, for Examination in the Subjects for the Degree of B.D.

James Francis, M.A., Glasgow.

9. The MACFARLAN AND COOK TESTIMONIAL PRIZE OF TWENTY-ONE POUNDS, open to Theological Students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

Angus John Morrison, M.A., North Uist.

10. The LUKE HISTORICAL PRIZE OF NINE POUNDS, for the best Examination in Ancient Greek and Roman History.

Peter Hately Waddell, Glasgow.

11. The THOMAS LOGAN MEMORIAL MEDAL AND PRIZE OF TWELVE POUNDS, to the most distinguished Graduate in Arts of the year (1900).

Mabel Atkinson, M.A., Glasgow, with First-Class Honours in Mental Philosophy and Second-Class Honours in Classics.

12. The BRUNTON MEMORIAL PRIZE OF TEN POUNDS, to the most distinguished Graduate in Medicine of the year (1900).

Charles Campbell Cuthbert, M.A., M.B.,Ch.B.

## III.—FOR THESIS.

BELLAHOUSTON GOLD MEDAL for Eminent Merit in Thesis for M.D.

James Fairlie Gemmill, M.A., M.D.

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## *CLASS PRIZES.*

## Faculty of Theology.

### DIVINITY.

PROFESSOR WILLIAM HASTIE, D.D.

SENIOR CLASS.

I. Students of the Third Year:—
  1. William Fulton, M.A., B.Sc., Uddingston (Cleland and Rae Wilson Gold Medal and Dickson Prize).
  2. Alexander Macdonald, Ardnamurchan.
  3. James W. Baird, M.A., Strone.

Honourable Mention—Angus J. Morrison, M.A., North Uist; James Francis, M.A., Glasgow.

II. Students of the Second Year:—
1. John Muir, M.A., Glasgow.
2. George Condie, M.A., Glasgow.
3. Alexander Cross, M.A., Port of Monteith.
4. John Gillies, M.A., Beith.

Honourable Mention—Kenneth O. Macleod, M.A., Glasgow; David L. Blair, M.A., Kilwinning.

III. Special Prizes:—

Dowanhill Prizes for Elocution—
1. William Fulton, M.A., B.Sc., Uddingston (£20).
2. Andrew W. Kennedy, Kingussie (£10).

Honourable Mention—Kenneth M'Lean, Greenock.

Burnside Prize for Bible Knowledge—David Crawford, Glasgow.

### JUNIOR CLASS.

1. Norman R. Mitchell, M.A., Beauly.
2. John T. Arnott, M.A., Kinloch, Blairgowrie.
3. Matthew Babington, M.A., Kilwinning.
4. William A. Gillies, M.A., Sleat, Skye.

Honourable Mention—Peter G. Smith, M.A., Stonehouse; Brodie S. Gilfillan, M.A., Lochwinnoch.

## DIVINITY AND BIBLICAL CRITICISM.

### PROFESSOR WILLIAM STEWART, D.D.

### SENIOR DIVISION.

1. Angus J. Morrison, M.A., North Uist (Cleland and Rae Wilson Gold Medal).
2. James Francis, M.A., Glasgow.
3. Hector W. Mackay, M.A., Rogart, Sutherlandshire.

Next in Order of Merit—James W. Baird, M.A., Strone; Andrew W. Kennedy, Kingussie.

### JUNIOR DIVISION.

1. William Fulton, M.A., B.Sc., Uddingston.
2. John Muir, M.A., Glasgow.
3. George Condie, M.A., Glasgow.
4. David L. Blair, M.A., Kilwinning.

Next in Order of Merit—John Gillies, M.A., Beith; Kenneth O. Macleod, M.A., Glasgow; Alexander Cross, M.A., Port of Monteith.

## HEBREW AND SEMITIC LANGUAGES.

### PROFESSOR JAMES ROBERTSON, D.D.

### I. SENIOR HEBREW CLASS.

1. John Muir, M.A., Glasgow (Cleland and Rae Wilson Gold Medal).
2. William Fulton, M.A., B.Sc., Uddingston.
3. George Condie, M.A., Glasgow.
4. John Gillies, M.A., Beith.
5. David L. Blair, M.A., Kilwinning.

### II. JUNIOR HEBREW CLASS.

1. { Brodie S. Gilfillan, M.A., Lochwinnoch.
   { Norman R. Mitchell, M.A., Beauly.
2. William A. Gillies, M.A., Sleat, Skye.
3. John T. Arnott, M.A., Kinloch, Blairgowrie.
4. Duncan Macarthur, Islay.

Next in Order of Merit—Peter G. Smith, M.A., Stonehouse; William H. Coats, Paisley; William M. Tait, M.A., Saltcoats.

### III. Special Prizes.

An Original Hebrew Composition and Summer Reading—John Muir, M.A., Glasgow.

An Essay on the Life and Times of Jeremiah—John M. Fairlie, Paisley.

### IV. Arabic Classes.

Senior—Jane B. Millar, Glasgow.
John Muir, M.A., Glasgow.
Junior—William Fulton, M.A., B.Sc., Uddingston.

*Summer Session*, 1900.

Senior Arabic—Alexander Russell.
Junior Arabic—John Muir, M.A., George Condie, M.A., Equal.
Junior Hebrew—Hugh Watt.

## CHURCH HISTORY.

Professor James Cooper, D.D.

### SENIOR CLASS.

1. Angus J. Morrison, M.A., North Uist (Cleland and Rae Wilson Gold Medal).
2. Andrew W. Kennedy, Kingussie.
3. Hector W. Mackay, M.A., Tongue, Sutherland.

*Proxime accesserunt*—James W. Baird, M.A., Strone; William A. R. Selkirk, M.A., Irvine.

### JUNIOR CLASS.

1. William A. Gillies, M.A., Sleat, Skye.
2. Norman R. Mitchell, M.A., Beauly.
3. John T. Arnott, M.A., Kinloch, Blairgowrie.
4. Brodie S. Gilfillan, M.A., Lochwinnoch.

*Proxime accesserunt*—William M. Tait, M.A., Saltcoats; Peter G. Smith, M.A., Stonehouse.

# Faculty of Law.

## SCOTS LAW.

Professor Alexander Moody Stuart, LL.D.

I. For Eminence in Class Examinations:—

1. *Alexander G. Kemp (Robert Ross Prize).
2. *James Auld.
3. *James C. Gatheral.
4. *John Macalister.
5. *John S. Smith.
6. *John Houston.
7. John Mackay.
8. Thomas L. Robb.
9. John Ford.
10. William C. Cowan.

The * denotes the Prizemen.

11. William W. Gillan, M.A.
12. { †James Kay, / James G. Webster, } Equal.
14. { Andrew R. Smith, / †Thomson Vass, } Equal.
16. Robert D. Hunter.

† Second Year Students.

I. The Prizes given by the Faculty of Procurators in Glasgow for Eminence in a Special Examination in the Subjects of the Course were awarded to:—

1. Alexander G. Kemp.
2. Thomas L. Robb.
3. { James Auld, / John Houston, } Equal.
5. Thomson Vass.
6. James C. Gatherall.

The following Students distinguished themselves in this Examination, viz.:—

7. John S. Smith.
8. Andrew R. Smith.
9. Robert D. Hunter.
10. William C. Cowan.

## CONVEYANCING.

PROFESSOR JAMES MOIR, LL.D.

Prizemen:—

1. William Philips, M.A., Glasgow (Robert Ross Prize).
2. Thomas Taylor, Strathaven.
3. John P. C. Elborn, Glasgow.
4. Thomas Hunter, Paisley.

Eminently distinguished:—

5. William B. Berry, M.A., Glasgow.
6. Norman C. Anderson, M.A., Glasgow.
7. Henry T. Mitchell, Airdrie.
8. Frank Murray, Dumfries.
9. Hugh Brown, M.A., Paisley.
10. Gladstone L. Henderson, Glenald, Kirkcudbright.
11. Alan K. Beveridge, Paisley.
12. Donald Mackay, Rogart, Sutherlandshire.

Examination for Prizes given by the Faculty of Procurators in Glasgow.

Prizemen:—

1. Henry T. Mitchell, Airdrie.
2. Thomas Taylor, Strathaven.
3. William B. Berry, M.A., Glasgow.

Eminently distinguished:—

Villiam Philips, M.A., Glasgow.
ohn P. C. Elborn, Glasgow.
ank Murray, Dumfries.
7. Norman C. Anderson, M.A, Glasgow.
8. Thomas Hunter, Paisley.
9. Gladstone L. Henderson, Glenald, Kirkcudbright.

## CIVIL (OR ROMAN) LAW.

Lecturer—James M. Irvine, M.A., B.Sc., LL.B., Advocate.

1. *Hamilton Crawford.
2. *Alfred S. Rogen.
3. *John S. Chalmers.
4. Roderick M. Nicol, M.A.
   Alexander D. Thomson.
6. James Austin.
7. Thomas Armstrong.
   Claud A. Boyce.
   David M. Hutchison.
10. Douglas A. Bannatyne.
    James H. Marr.
12. Henry L. Menzies.
    George Wilkie.
14. John C. Brown.
15. William Millar.
16. Walter Henderson.
    Alexander B. Mackay, M.A.
18. Andrew Cranston.
19. Theodore D. Lowe, M.A.
20. Archibald C. Black, M.A.
    Robert Henderson.
22. James Robertson.

The * denotes the prizemen.

## PUBLIC INTERNATIONAL LAW.

Lecturer—William Galbraith Miller, M.A., LL.B., Advocate.

First-Class Honours and Prize.—John Girvan, M.A., Glasgow.

Second Class Honours.

Thomas W. Donald, M.A., Glasgow.
Thomas G. Wright, M.A., Glasgow.
George D. Valentine, M.A., Girvan.

## INTERNATIONAL PRIVATE LAW.

*Summer Session*, 1900.

Lecturer—William Galbraith Miller, M.A., LL.B., Advocate.

First-Class Honours.

1. Donald Mackay, Glasgow,
   George D. Valentine, M.A., Girvan, } Prizemen—Equal.
2. John D. Johnston, M.A., Glasgow.

## JURISPRUDENCE.

Lecturer—William Galbraith Miller, M.A., LL.B., Advocate.

A. Course of Analytical Jurisprudence.

First-Class Honours and Prize.—Thomas G. Wright, M.A., Glasgow.

Second-Class Honours.—William G. Macalister, M.A., Glasgow.

B. Course of General Jurisprudence.

First-Class Honours and Prize.—John Girvan, M.A., Glasgow.

## CONSTITUTIONAL LAW AND HISTORY.

Lecturer—William S. M'Kechnie, M.A., LL.B., D.Phil.

Honours Class.—Alexander Montgomerie, M.A. (Prizeman).

Ordinary Class.

1. Thomas W. Donald, M.A. (First Prize).
2. George D. Valentine, M.A. (Second Prize).
3. Thomas G. Wright, M.A. (Third Prize).
4. John Docherty.
5. Hamilton Crawford.
6. William G. Macalister, M.A.
7. Joseph Barnes, M.A.

8. William Millar.
9. **Douglas A. Bannatyne.**
10. George B. Wishart.

Special Prize for Best Arts Students over Full Course.

John Docherty.

### MERCANTILE LAW.

Lecturer—William Shaw.

Prizes :—

1. Hugh R. Buchanan, M.A.
2. John B. Frew.
3. John H. Fraser.

Highly Distinguished :

Thomas N. Miller.
William Gilchrist.
Walter W. Rathie.
Allan L. S. Roberts.
James M. Kerr.

### FORENSIC MEDICINE.

Professor John Glaister, M.D., D.Ph. (Camb.), F.R.S.E.

Medallist—Hugh R. Buchanan, M.A.

First-Class Certificates.

Norman C. Anderson, M.A., } Equal.
William C. Cowan, }

Second-Class Certificates.

Ernest G. Smith, M.A.
George Stewart.
James Waddell, M.A.

## Faculty of Medicine.

*MEDALS AND CERTIFICATES OF MERIT.*

### SURGERY.

Professor William Macewen, M.D., LL.D., F.R.S

SENIOR DIVISION.

James C. Ross, } Equal (Medallists).
Samuel J. Cameron, }

FIRST-CLASS CERTIFICATES.

Alexander D. Thompson, } Equal.
George F. Buchan, }
Albert E. Wainwright, } Equal.
William M. Brown, }
Walter J. M'Feat, } Equal.
Robert Ramsey, }
John S. Barr.
Thomas H. Jack.

COMMENDED.

James Walker, } Equal.
George B. Eadie, }
John Paton.
James D. Gourlay.
David Kyle, M.A., } Equal.
William J. Isbister, }
Frank J. Lochrane.
Alexander Doig.

JUNIOR DIVISION.

Edward Magoveny (Medallist).

FIRST-CLASS CERTIFICATES.

John M. Reid, }
Joseph White, M.A., B.Sc., } Equal.
Joseph G. Tomkinson.
Charles J. Ross, B.A.
William A. Milne.
Spencer Mort.
Alexander G. Banks, }
Alexander Macintyre, } Equal.

COMMENDED.

Andrew M. Kerr.
Ernest D. Jackson, }
William K. Anderson, } Equal.
Thomas I. Wallace, }
James C. Pairman, M.A.
Ernest H. Cramb, }
Hugh W. Crawford, }
David Riddell, } Equal.
Robert J. Arthur, }
John Guthrie, }
John W. Smith, }
Alexander A. MacFarlane, } Equal.
Archibald Leitch, }
John M. Huey,
William G. Shand, }
John Maclean, }
Edward S. Chapman, } Equal.
Matthew Hunter, }

## CLINICAL SURGERY.

PROFESSOR WILLIAM MACEWEN, M.D., LL.D., F.R.S.

SENIOR DIVISION.

FIRST-CLASS CERTIFICATES.

Donald Steele (Medallist).
William H. Brown.
James Walker.
Edward Magoveny.
William M. Brown.
William G. Roger.
David Kyle, M.A.
Charles J. Ross, B.A., }
Robert D. Campbell, }
Samuel J. Moore, } Equal.
Douglas W. Hunter, }
Samuel J. Cameron.

COMMENDED.

John Anderson, }
George B. Eadie, } Equal.
George F. Buchan.
James B. W. Cook, }
John J. Y. Campbell, } Equal.

JUNIOR DIVISION.

FIRST-CLASS CERTIFICATES.

Richard Makins (Medallist).
Neil M. Hutchison.

COMMENDED.

George Ferguson, }
Robert Laurie, } Equal.

## CLINICAL SURGERY.

PROFESSOR SIR HECTOR C. CAMERON, M.D.

*Summer Session*, 1900.

CERTIFICATES OF MERIT.

SENIORS.

James Millar, M.A.
James G. Millar.

JUNIORS.

William W. George.
William Stewart.
Alexander Matheson, M.A.

*Winter Session*, 1900-1901.

SENIORS.

Andrew M. Kerr (Medallist).

CERTIFICATES OF MERIT.

William A. Milne.
William D. H. Stevenson, M.A.
Ernest D. Jackson.
Thomas Anderson.
John C. Christie.
Alexander Matheson, M.A.
John M. Smith.

JUNIORS.

Carl H. Browning (Medallist).

CERTIFICATES OF MERIT.

Robert T. Leiper. Hugh C. Davies. Griffith J. Williams.

## PRACTICE OF MEDICINE.

PROFESSOR THOMAS M'CALL ANDERSON, M.D.

SENIOR DIVISION.

GAIRDNER MEDAL—Robert Ramsey.

FIRST-CLASS CERTIFICATES (in order of merit).

1. { William M. Brown.
   { Samuel J. Cameron.
3. John S. Barr.
4. James C. Ross.

JUNIOR DIVISION.

MEDALLIST—Alan H. Muir.

FIRST-CLASS CERTIFICATES (in order of merit).

1. George Ferguson.
2. Samuel J. Moore.
3. John Maclean.
4. William R. Wylie.

## CLINICAL MEDICINE.

PROFESSOR SIR WILLIAM T. GAIRDNER, K.C.B., M.D., LL.D., F.R.S.

*Summer Session*, 1900.

FIRST-CLASS CERTIFICATES (in order of merit).

1. James C. Ross, Bowmore, Islay.
2. { James Walker, Glasgow, } Equal.
   { James Davidson, M.A., Edinburgh. }
4. David Kyle, M.A., Glasgow.

Special Prizes for Notes of Lectures and Clinical Demonstrations:—
James C. Ross, Bowmore, Islay. Malcolm B. G. Sinnette, Glasgow.

SECOND-CLASS CERTIFICATES (in alphabetical order).

George B. Eadie, Glasgow. George R. Jeffrey, Jedburgh.
Malcolm B. G. Sinnette, Glasgow.

## CLINICAL MEDICINE.

PROFESSOR THOMAS M'CALL ANDERSON, M.D.

*Summer Session*, 1900.

FIRST-CLASS CERTIFICATES (in order of merit).

SENIOR DIVISION.

1. Thomas Adam, M.A.
2. { Alexander King.
   { Edward P. Cathcart.
4. James Mackinnon.
5. { Matthew Aikman, M.A.
   { John D. Brownlie.
7. { Alexander Wilson.
   { Alfred B. Maclurkin.
9. Allan Martin, M.A., B.Sc.

JUNIOR DIVISION.

1. Spencer Mort.
2. David Dickie.
3. Alexander B. Watt.

*Winter Session*, 1900-1901.

SENIOR DIVISION.

MEDALLIST—William Archibald.

FIRST-CLASS CERTIFICATES (in order of merit).

1. Francis J. Henry.
2. Alexander Doig, Andrew P. Granger, Alexander Linn, — Equal.

JUNIOR DIVISION.

MEDALLIST—Spencer Mort.

FIRST-CLASS CERTIFICATES (in order of merit).

1. Samuel C. Cowan.
2. John S. Dale.
3. Peter L. Sutherland.
4. George G. Smith.
5. Cunison C. Finlator.

## CLINICAL MEDICINE.

PROFESSOR SAMSON GEMMELL, M.D.

*Winter Session*, 1900-1901.

SENIOR DIVISION.

John Morison, Alexander D. Thompson, — Equal. (Medallists).

FIRST-CLASS CERTIFICATES (in order of merit).

Robert Ramsey.
Albert E. Wainwright.
Jacob Mains.
George W. M'Millan.
Edward S. Chapman.

JUNIOR DIVISION.

MEDALLIST—Thomas I. Wallace.

FIRST-CLASS CERTIFICATES (in order of merit).

David Riddell.
William N. W. Watson.

## MIDWIFERY.

PROFESSOR MURDOCH CAMERON, M.D.

MEDALLIST—Alexander D. Thompson.

FIRST-CLASS CERTIFICATES (alphabetically arranged).

William Archibald.
William M. Brown.
Samuel J. Cameron.
David B. Davidson.
William W. George.
Francis J. Henry.
Douglas W. Hunter.
David Kyle, M.A.
Donald Steel.

SECOND-CLASS CERTIFICATES (alphabetically arranged).

John S. Barr.
Robert D. Campbell.
James B. W. Cook.
Daniel R. Kilpatrick.
Robert J. Mills.
John Paton.
Andrew Reid.
James C. Ross.
James Walker.
Thomas I. Wallace.

## DISEASES OF WOMEN.

PROFESSOR MURDOCH CAMERON, M.D.

*Summer Session*, 1900.

MEDAL—James D. Lickley.

FIRST-CLASS CERTIFICATES (alphabetically arranged).

Donald M. Livingston.
Burgess M'Phee.
Andrew Mair.
William A. Milne.
Alexander D. Thompson.
George White.
John Young.

SECOND-CLASS CERTIFICATES (alphabetically arranged).

Alexander Birch.
John T. Clark.
Frank L. Dickson.
William Girvan.
Charles A. Gourlay, M.A.
James Mackinnon.
George T. Maclean, M.A.
Robert M. Marshall.
Allan Martin, M.A., B.Sc.
James Millar, M.A.
Joseph G. Tomkinson.

## INSANITY.

LECTURER—DAVID YELLOWLEES, M.D., LL.D.

*Summer Session*, 1900.

1. Mackintosh Bursary—{ Donald Steel, / Alex. D. Thompson, } Equal.

FIRST-CLASS CERTIFICATES.

2. John Strathearn.
3. William A. Milne.

SECOND-CLASS CERTIFICATES.

4. Elizabeth N. M. Ross.
5. Joseph G. Tomkinson.
6. John M. Reid.
7. William Archibald.

## DISEASES OF THE EAR.

LECTURER—THOMAS BARR, M.D.

*Summer Session*, 1900.

PRIZES.

William Archibald.
James Walker.

FIRST-CLASS CERTIFICATES.

Ernest C. Burnett.
George W. M'Millan.
Dugald H. Macphail.
William Robertson.

*Winter Session*, 1900-1901.

PRIZES.

Alexander M. M'Millan.
Jacob Mains.

FIRST-CLASS CERTIFICATES.

Joseph P. Lusk.
John Paton.

## DISEASES OF THE THROAT AND NOSE.

LECTURER—JAMES WALKER DOWNIE, M.B.

*Summer Session*, 1900.

PRIZE—Thomas H. Jack.

FIRST-CLASS CERTIFICATES.

Thomas H. Jack.
James M'Pherson, M.A.
William Robertson.
Henry Whitehouse, M.B.
Alexander H. Cassells.
John Forrest.

SECOND-CLASS CERTIFICATES.

George S. Wallace.
John Morison.
John S. Barr.
John B. Stewart.

*Winter Session*, 1900-1901.

PRIZE AND FIRST-CLASS CERTIFICATE—James O. Barclay.

FIRST-CLASS CERTIFICATES.

Albert E. Wainwright.
Jacob Mains.
Alexander M. M'Millan.
John M. Reid.

SECOND-CLASS CERTIFICATES.

William Archibald.
Donald Steel.
William G. Rodger.

## PATHOLOGY.

PROFESSOR ROBERT MUIR, M.A., M.D.

MEDALLIST—William A. Milne.

FIRST-CLASS CERTIFICATES (in order of merit).

SENIOR DIVISION.

1. Andrew Halliday, M.B.
2. James G. Millar.

JUNIOR DIVISION.

1. William A. Milne.
2. { Alexander G. Banks, Ernest D. Jackson, } Equal.
4. Thomas Rankine.
5. { Andrew M. Kerr, Joseph Whyte, M.A., B.Sc., } Equal.
7. { John C. M'Kenzie, John M. Reid, } Equal.
9. Alexander Macintyre.
10. { John Stevenson, Hugh W. Crawford, } Equal.

SECOND-CLASS CERTIFICATES (in order of merit).

12. Richard Makins.
13. William K. Anderson.
14. { William Dow, John Guthrie, James S. Nicolson, John W. Smith, } Equal.
18. Thomas I. Wallace.
19. David Riddell.
20. Malcolm B. G. Sinnette.
21. { William F. Kay, John Muir, } Equal.

## PRACTICAL PATHOLOGY.

PROFESSOR ROBERT MUIR, M.A., M.D.

*Summer Session*, 1900.

JOHN HUNTER MEDAL—Andrew M. Kerr.

FIRST-CLASS CERTIFICATES (in order of merit).

Andrew M. Kerr.
William K. Anderson, Alexander G. Banks, Archibald Leitch, } Equal.
Hugh W. Crawford, Thomas W. Love, } Equal.
Joseph White, M.A.
Ernest D. Jackson.
Thomas Rankine, John M. Reid, } Equal.

SECOND-CLASS CERTIFICATES (in order of merit).

William A. Milne.
Alexander Macintyre, } Equal
John W. Smith,
William W. George.
Daniel D. M'Dougall, M.A.
Ronald D. Hodge,
George R. Jeffrey, } Equal
Ivy M'Kenzie, M.A.,
Robert C. Smith,
John Guthrie.
John A. Garden,
Joseph P. Lusk, } Equal
Alexander M. M'Millan,
John W. Renton,
John C. M'Kenzie.

## MEDICAL JURISPRUDENCE AND PUBLIC HEALTH

*Summer Session*, 1900

PROFESSOR JOHN GLAISTER, M.D., D.P.H. (Camb.), F.R.S.E.

FIRST-CLASS CERTIFICATES (in order of merit).

MEDALLIST—Samuel J. Moore.

Archibald Leitch, } Equal.
John M. Reid,
Andrew F. R. Bell.
William W. George,
Thomas W. Love, } Equal
David Penman,

SECOND-CLASS CERTIFICATES (in order of merit).

John Ferguson, M.A.,
Andrew M. Kerr, } Equal.
David Kyle, M.A.,
John B. M'Cabe,
Alexander G. Banks,
William A. Milne, } Equal.
John C. M'Kenzie,
Alexander M. M'Millan,
Hugh W. Crawford,
Joseph White, M.A., } Equal.
Robert G. White, M.A., B.Sc.,
John M. M'Kellar.

## ANATOMY.

PROFESSOR JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.

SENIOR CLASS.

MEDAL—William D. H. Stevenson, M.A.

FIRST-CLASS CERTIFICATES.

Malcolm Hutton, M.A.
George M. Gray.
Carl H. Browning.
John B. Stewart.

SECOND-CLASS CERTIFICATES OF MERIT.

Arthur Innes, } Equal.
Duncan Macfadyen,
Peter L. Sutherland.

Robert M. Wilson.
Thomas W. Love,
William W. George, } Equal.
John M. Kelly.
David Blackley.
William Rankin, M.A.
David Dickie.

JUNIOR CLASS.

MEDAL—Robert B. Carslaw, M.A.

FIRST-CLASS CERTIFICATE—Hugh H. Fulton.

SECOND-CLASS CERTIFICATES OF MERIT.

John S. Dunn.
John M'Farlane,
James M'Houl, } Equal.
James W. Thomson,

## EMBRYOLOGY.

*Summer Session*, 1900.

LECTURER—JAMES F. GEMMILL, M.A., M.D.

PRIZES { Robert T. Leiper,
William D. H. Stevenson, M.A., } Equal.

FIRST-CLASS CERTIFICATES (in order of merit).

Carl H. Browning.
Malcolm Hutton, M.A.
Ivy M'Kenzie, M.A.

## PHYSIOLOGY.

PROFESSOR JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.

SYSTEMATIC.

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.—Arthur Innes.

FIRST-CLASS CERTIFICATES (in order of merit).

Robert M. Wilson.
George M. Gray.
Alexander S. M. Macgregor.
Andrew B. Aitken,
Wm. B. M. Martin, } Equal.

SECOND-CLASS CERTIFICATES (in order of merit).

Charles Brown,
Morrison W. Smith, } Equal.
James Porter.
David Blackley,
Hugh H. Fulton,
Duncan Macfadyen, } Equal.
James Marshall,
James W. Thomson,
Robert D. Bell, M.A.,
Charles M. Drew, } Equal.
Berkeley H. Robertson, M.A.,
Murray R. Taylor, } Equal.
Allan R. Barrowman,
Louis L. Greig,
David J. M'Leish, M.A., } Equal.
William Templeton,

## PRACTICAL PHYSIOLOGY.

PROFESSOR JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.

*Summer Session*, 1900.

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE—Robert T. Leiper.

FIRST-CLASS CERTIFICATES (in order of merit).

Carl H. Browning.
William Harvey.
Joseph Walker, M.A.

SECOND-CLASS CERTIFICATES (in order of merit).

| | |
|---|---|
| Peter L. Sutherland. | George G. Smith. |
| Arthur Innes, } Equal. | Thomas Bennett, M.A. |
| Arthur W. Sutherland, } Equal. | David Blackley. |
| John Hanson, M.A., } Equal. | |

## ADVANCED PRACTICAL PHYSIOLOGY.

*Winter Session*, 1900-1901.

JOHN HUNTER MEDAL AND FIRST-CLASS CERTIFICATE—Robert T. Leiper.

FIRST-CLASS CERTIFICATES (in order of merit).

| | |
|---|---|
| Isabel D. Mitchell. | William Rankin, M.A. |

SECOND-CLASS CERTIFICATES (in order of merit).

| | | |
|---|---|---|
| Thomas W. Love. | Alexander Matheson, M.A. | Malcolm Hutton, M.A. |

## MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RALPH STOCKMAN, M.D.

MEDALLIST—Carl H. Browning.

FIRST-CLASS CERTIFICATES (in order of merit).

| | |
|---|---|
| William G. Shand. | John M. Smith |
| Arthur W. Sutherland, M.A. | Malcolm Hutton, M.A. |
| Joseph Walker, M.A. | David G. Dykes. |
| John Hanson, M.A. | |

SECOND-CLASS CERTIFICATES (in order of merit).

| | |
|---|---|
| John Bain. | James Eadie. |
| Alexander Blair. | Joseph J. [illegible] |
| David Dickie. | Norman A. Macleod. |
| James D. M'Culloch. | William Rankin, M.A. |
| Daniel F. Riddell, M.A. | James Glover. |
| James Wilson. | Alexander S. M'Millan. |
| John W. Sutherland. | Cunison C. Finlator. |
| James Forsyth. | William T. Bolton. |

## PRACTICAL PHARMACY.

PROFESSOR RALPH STOCKMAN, M.D.

*Summer Session*, 1900.

MEDAL—John Hanson, M.A.

FIRST-CLASS CERTIFICATES (in order of merit).

| | |
|---|---|
| Thomas Bennett, M.A. | William G. Shand. |

SECOND-CLASS CERTIFICATES (in order of merit).

| | |
|---|---|
| David Dickie. | Arthur W. Sutherland. |
| Alexander E. Clark. | Alexander Blair. |

## BOTANY.

PROFESSOR F. O. BOWER, SC.D., F.R.S.

*Summer Session*, 1900.

MEDAL—Robert B. Carslaw, M.A.

FIRST-CLASS CERTIFICATE—Thomas Barbour.

SECOND-CLASS CERTIFICATES.

Arthur Shepherd.
John L. Stewart.
Robert D. Bell, M.A.,
John I. Greig, } Equal.
Andrew Meek,
Alexander S. M. Macgregor,
James H. Lindsay, } Equal.
Edward Porter,
John M'Farlane, } Equal.

PRACTICAL CLASS.

*Summer Session*, 1900.

MEDAL—John S. Dunn.

FIRST-CLASS CERTIFICATE—Robert B. Carslaw, M.A.

SECOND-CLASS CERTIFICATES.

Andrew B. Aitken.
Hugh H. Fulton,
Alexander S. M. Macgregor, } Equal.
Thomas Barbour.
Donald R. Reid,
William Sutherland, } Equal.
James H. Lindsay.
John I. Greig,
William B. M. Martin, } Equal.

HERBARIUM PRIZE—(No award).

## NATURAL HISTORY.

PROFESSOR JOHN YOUNG, M.D.

### ZOOLOGY.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Norman H. W. Maclaren.

FIRST-CLASS CERTIFICATES.

Robert B. Carslaw, M.A.
John Graham.

SECOND-CLASS CERTIFICATES.

Robert Donald.
Thomas Thom.
Alexander Graham.
Hamilton W. Dyke.
David MacDonald.
John L. Stewart, M.A.
Joseph R. Sutherland.

### PRACTICAL ZOOLOGY.

*Summer Session*, 1900.

SECOND-CLASS CERTIFICATE.

David J. M'Leish.

*Winter Session*, 1900-1901.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Robert B. Carslaw, M.A.

SECOND-CLASS CERTIFICATE.

William L. Kirkwood.

### GEOLOGY.

WILLIAM HUNTER MEDAL AND FIRST-CLASS CERTIFICATE.

Frederick Mort, M.A.

SECOND-CLASS CERTIFICATES.

James Sinclair,
Alexander B. Lamont, M.A., } Equal.

Edward Porter

## PHYSICS.

PROFESSOR ANDREW GRAY, M.A., LL.D., F.R.S.

*Summer Session*, 1900.

JOSEPH BLACK MEDALS.

William B. M. Martin,
James W. Thomson, } Equal.

FIRST-CLASS CERTIFICATES (in order of merit).

Allan R. Barrowman.
David J. M'Leish.
Robert D. Ball, M.A.,
Tom D. M'Ewan, } Equal.
William Y. Turner.
Alexander S. M'Macmillan,
John Pearson,
Henry S. Ranken,
William Rolland, } Equal.

John S. Dunn,
Alexander S. M. Macgregor,
John M. Ross, } Equal.
Robert Macfarlane.
John Moffatt.

SECOND-CLASS CERTIFICATES (in order of merit).

Andrew B. Aitken.
Howard H. Patrick.
Andrew W. Anderson,
Forrest Brechin,
James Hunter, } Equal.
Alexander Robertson.
John M'Farlane.
Alexander R. F. Hay,
Andrew M. Pollock, } Equal.
Allan C. Douglas.
Archibald Y. Hutchison.
Matthew T. D. M'Murrich.

George C. Nielson.
Andrew Allison,
Andrew Meek, } Equal.
Morrison W. Smith.
Robert W. Dale.
Thomas Orr.
John C. Henderson.
Macdonald Munro.
George Y. Caldwell,
Hugh H. Fulton,
Joseph Glaister,
Archibald C. West, } Equal.

## PRACTICAL CHEMISTRY.

*Summer Session*, 1900.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

JOSEPH BLACK MEDAL AND FIRST-CLASS CERTIFICATE.

James Marshall.

SECOND-CLASS CERTIFICATES.

Donald Arbuckle.

George N. Kirkwood.

## CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D., F.S.A.

JOSEPH BLACK MEDAL AND GEORGE ROGER MUIRHEAD PRIZE.

Alexander B. Lamont, M.A.

FIRST-CLASS CERTIFICATES.

Alexander Chisholm.
John Frew.

Alexander B. Lamont, M.A.
John H. Stewart.

SECOND-CLASS CERTIFICATES.

George A. Allan.
Daniel Gillies.
William B. Jack.
Alexander R. Mackenzie.
Frederick Mort, M.A.
James Sinclair.
James Taylor.
Robert Ure.
James K. Welsh.

## Faculty of Science.

---

### ENGINEERING.

PROFESSOR ARCHIBALD BARR, D.Sc., M.I.C.E.

The George Harvey Prize not Awarded.

WALKER PRIZES.

1. George M. Young, Pollokshields. 2. James Craig, Partick.

CLASS IV.

1. Alfred J. Wilson, Lenzie. 2. Tokujiro Kazama, Japan.

Next in Order of Merit.

Robert T. Neilson, Bellshill,
George M. Young, Pollokshields, } Equal.
Neil B. M'Millan, Ullapool,

CLASS II.

1. James M. Clark, M.A., Glasgow. 2. Thomas M. Hunter, M.A., Glasgow

Next in Order of Merit.

Thomas G. Dempster, Glasgow.

CLASS I.

1. James M. Clark, M.A., Glasgow.
2. { James Muirhead, Glasgow,
John G. Young, Pollokshields, } Equal.

Next in Order of Merit.

1. John Younger. 2. Thomas M. Hunter, M.A., Glasgow.

ENGINEERING DRAWING AND CALCULATIONS—SENIOR.

1. Alfred J. Wilson, Lenzie. 2. Thomas M. Hunter, M.A., Glasgow.

Next in Order.

William Bryson, Dundee,
Clive M. Primrose, } Equal.
George M. Young,

JUNIOR.

1. Neil J. M'Lean, Glasgow. 2. Thomas G. Dempster, Glasgow.

Next in Order.

W. B. Hartley, Cheshire. J. M. Clark, M.A., Glasgow.

ENINEERING LABORATORY—GENERAL COURSE—SENIOR.

Alfred J. Wilson, Lenzie.

JUNIOR.

James M. Clark, M.A., Glasgow. Bertram F. Taylor, Glasgow.
Arthur H. Wilson, Glasgow.

ELECTRICAL COURSE.

Samuel Blackley, Dumfries.

RECOMMENDED FOR MUIR BURSARIES.

| | |
|---|---|
| James M. Clark, M.A., Glasgow. | Thomas M. Hunter, M.A., Glasgow. |

### ELECTRICAL ENGINEERING.

Lecturer—John D. Cormack, B.Sc., M.I.E.E.

1. Tokujiro Kazama, Japan.

### NAVAL ARCHITECTURE INCLUDING MARINE ENGINEERING.

Professor J. H. Biles, Mem. Counc. I.N.A., M.I.C.E.

SENIOR CLASS.

George C. Cooke, U.S.A.

JUNIOR CLASS.

George E. Smith, U.S.A.

DRAWING CLASS.

Felix De Keyser, Belgium.

## Faculty of Arts.

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### HISTORY.

Professor Dudley J. Medley, M.A.

HONOURS CLASS.

Prize—Charles A. Young.

Certificates of Merit.

John R. Cameron.
Alexander Montgomerie, M.A.
James H. Steel.
Hugh Watt.

ORDINARY CLASS.

Prizes.

1. Martin R. Murray.
2. George P. Philps.
3. Matthew Stewart.
4. Edward B. Rattray.
5. Thomas Rook.
6. Peter Marshall.
7. George P. Granger.
8. John Hutcheson.

Certificates of Merit.

1. David C. Lusk.
2. John M'Millan.
3. Edward H. Wardrop.
4. John Patterson, M.A.
5. Alexander Borland.
6. Hugh B. Guthrie.
7. John M'Bryde.
8. William Kerr.
9. George W. M'Allister.
10. John Bain.

### MATHEMATICS.

Professor William Jack, M.A., LL.D.

ADVANCED HONOURS.

1. William Sutherland (Cunninghame Gold Medal).
2. Dougald B. M'Quistan.

Additional—John S. Mitchell.

INTERMEDIATE HONOURS.

1. *Robert Hamilton.
2. Margaret H. Livingston.
3. Robert Jack.
4. William A. Campsie.
   Archibald Lang.
   Robert M. Morrison.

*Mr. Hamilton also obtains the Muir Senior Bursary in Mathematics, subject to the conditions in the *Calendar*.

CLASS II.

1. *Robert Harvie.
2. William Miller.
3. Adam Patrick.
4. George Green.
5. Robert Ure.
6. John Miller.
7. William B. Donald.
   Archibald H. Dunlop.
9. James M. Frew.
10. James B. Dickie.
    Peter Mitchell.
12. Andrew Henderson.
    Elias H. Jones.
    John C. Middleton.
    Helen Wilkie (Queen Margaret).

*Mr. Harvie also obtains the Muir Junior Bursary in Mathematics, subject to the conditions in the *Calendar*.

CLASS I.

1. Alice H. Macalpine (Queen Margaret).
2. Rhoda G. Harrison (Queen Margaret).
   Alexander R. Couper.

*Summer Session*, 1900.

LECTURERS—HORATIO S. CARSLAW, M.A., D.Sc., AND
WILLIAM E. PHILIP, M.A.

PRIZES.

Robert A. Houstoun.
Harry S. Hutchison.

## NATURAL PHILOSOPHY.

PROFESSOR ANDREW GRAY, M.A., LL.D., F.R.S.

ORDINARY CLASS.

PRIZES AND FIRST-CLASS CERTIFICATES (order of merit).

1. Robert A. Houstoun, Glasgow (Cleland Gold Medal).
2. Archibald Lang, Glasgow.
3. Robert Jack, Uddingston.
4. John Campbell, Jordanhill,
   Robert M. Morison, Greenock, Equal.
6. James Hunter Glasgow.
7. John Frew, Galston,
   David J. M'Leish, M.A., Crieff, Equal.
9. James G. Gray, Glasgow.
10. Andrew Henderson, Dalry, Ayrshire.
11. Charles H. Lobban, Ayr,
    William S. B. Wilson, Motherwell, Equal.

FIRST-CLASS CERTIFICATES (alphabetical order).

John Anderson.
Robert Burns.
Daniel K. Campbell.
Thomas K. Cook.
William M. Gray.
John Martin.
Neil J. Maclean.
Andrew V. Wilson.

### HIGHER MATHEMATICAL CLASS.

#### Division A.

1. Alfred J. Wilson, Lenzie.
2. John J. Gemmell, Ayr.

FIRST-CLASS CERTIFICATES.

James B. Galbraith.
Dougald B. M'Quistan.
William Sutherland.
William L. Thompson.

#### Division B.

1. John Maclean, Glasgow.
2. Tokujiro Kazama, Japan.

FIRST-CLASS CERTIFICATES.

Niel B. Macmillan.
John S. Mitchell.
Thomas B. Morley.

### PHYSICAL LABORATORY.

1. Robert A. Houstoun, Glasgow.

FIRST-CLASS CERTIFICATES.

William Brown.
John Campbell.
James G. Gray.
James Hunter.
Alexander M. Little.
Neil J. Maclean.
John Younger.

### PHYSICAL OPTICS.

Special Course conducted by George D. Valentine, M.A., George A. Clark Scholar in Mathematics and Natural Philosophy.

1. John J. Gemmell, Ayr (Prize).

### ELECTRICITY—PURE AND APPLIED.

FIRST-CLASS CERTIFICATES.

*Summer*, 1900.

Alfred J. Wilson, Lenzie.

*Winter*, 1900-1901.

James G. Gray, } Equal.
John Maclean. }
John Kirkwood.

### LOGIC AND METAPHYSICS.

Professor Robert Adamson, M.A., LL.D.

PRIZES.

1. Harold C. Rowse, Rawdon, Yorks (Buchanan Prize).
2. Robert R. Rusk, Ayr.
3. William Manson, Cambuslang.
4. Alfred S. Rogen, Dennistoun.
5. Margaret T. Robertson, Glasgow.
6. Alexander D. Thomson, Ayr.
7. Joseph MacInnes, Dunvegan, Skye.
8. Catherine C. Hogarth, Beith.
9. Thomas Low, Peebles.

### CERTIFICATES OF DISTINCTION.

1. Leyton P. Richards, Reading.
2. John Drury, Glasgow.
3. James B. Galbraith, Glasgow, Charles G. Nelson, Girvan, Equal.
5. John D. Brown, Whiteinch.
6. Frances S. Chambers, Perth.
7. John Kaye, Perth, Alexander M. M'Iver, Glasgow, Cosmo A. Ralston, Glasgow, Equal.
10. George Aitken, Kirkintilloch.
11. John M. M'Gauley, Clydebank.

## MORAL PHILOSOPHY.

PROFESSOR HENRY JONES, M.A., LL.D.

### HONOURS CLASS.

1. Archie D. Thomson (Edward Caird Medal, together with a Prize of Five Guineas given by Mrs. John Caird for Excellence in the Essays).
2. *Proxime Accessit*: William Richard Wiseman.

### ORDINARY CLASS.

Prizes and First-Class Certificates of Merit for General Eminence in the Essays, Exercises, and Examinations of the Class.

1. George Shann (Buchanan Prize).
2. Sydney M. MacEwen.
3. Alexander P. Crichton.
4. George D. Reith.
5. James F. Dyer.
6. David Forfar.
7. Alexander Borland.
8. Margaret T. Robertson. Kyle Thomson.
10. William W. Henderson.

### FIRST-CLASS CERTIFICATES OF MERIT.

William Brown.
William W. Clark.
James Cosh.
Alice A. L. Malcolm.
William Paterson.
Cosmo A. Ralson.
Thomas G. Robertson.

The Prize of Five Guineas given by Mrs. John Caird for Excellence in the Essays was awarded to

George Shann.

SUMMER VACATION PRIZE.—Sydney M. MacEwen.

## POLITICAL ECONOMY.

PROFESSOR WILLIAM SMART, M.A., LL.D., D.Phil.

1. Constance H. M. Archibald.
2. Archibald M. Macmillan, M.A., B.Sc.
3. Lizzie C. M. Lochhead.
4. Humphrey Chalmers, John A. Martin, George Shann, Equal.

*Proxime accesserunt.*

William Brown.
James W. Buchan.
Robert Jack.
Thomas U. Paterson.
Georgina B. MacFarlane.
Neil MacInnes.
Oliver Dryer.
Margaret B. Brechin.

The Alexander Smart Memorial Prize of £10 (in Books) for the Highest Place in the Essays.

Constance H. M. Archibald.

## EDUCATION.

LECTURER—JOHN ADAMS, M.A., B.Sc.

PRIZES.

1. Samuel N. Forrest.
2. Mary R. Boyd, George Green, Equal.
4. Jeanie Munro.
5. David P. M'Donald.
6. Mary Girvan.
7. Dougald E. M'Quistan.
8. Ann Hutchison, Jane Leishman, Equal.
10. James A. Witherspoon.
11. Margaret C. B. M'[illegible], Jessie Scott, Equal.

ESSAY PRIZES.

1. John Guthrie.
2. Marion Weir.

FIRST-CLASS CERTIFICATES.

John D. Anderson.
Charles Cullen.
Peter Dudgeon.
Margaret B. Ferguson.
Louise M. Forrest.
Elizabeth L. Gemmell.
John Hair.
John H. B. Lochhead.
William M'Bride.
Mary Menzies.
Mary E. Munro.
Neil H. O'Beirne.

## HUMANITY.

PROFESSOR GEORGE G. RAMSAY, M.A., LL.D., Litt.Doc.

Prizes for General Excellence in the Work of the Session.

PRIVATE AND HONOURS CLASS, 1 P.M.

MUIRHEAD PRIZES.

Books read—Juvenal, *Sat. I., III., IV., V., VII., VIII.*; Lucretius, *Books III., IV.*; Tac. *Ann. IV.*; Virgil, *Aen. VI., VII.*

1. John MacInnes, Saltcoats (Spier's School, Beith).
2. Robert K. Goodfellow, Irvine (Irvine Academy).
3. George S. Gordon, Falkirk (Falkirk High School).

SENIOR CLASS, 9 A.M.

THE COWAN GOLD MEDAL.

1. James E. Scott, Inverness (Blair Lodge and Inverness College).

ORDINARY PRIZES.

2. Robert N. Cross, Hamilton (Hamilton Academy).
3. Mary V. Hunter, Glasgow (Miss Watson's School).
4. Adam Patrick, Greenock (Greenock Academy).
5. Elias H. Jones, Glasgow (Glasgow High School).
6. Thomas Duncan, Stirling (Stirling High School).
7. Andrew Hutchison, Glasgow (P.T. Institute, etc.).
8. William B. Donald, Dalmuir (Glasgow High School).
9. William A. Campsie, Govan (Allan Glen's School).
10. Duncan D. Hair, Paisley (Paisley Grammar School).
11. Jenny G. Hunter, Glasgow (Park School).
12. Margaret E. M'Kerrow, Glasgow (Park School).
13. Annie M. MacGregor, Glasgow (Girls' High School and Hutchesons' Grammar School).
14. William Millar, Greenhead (Hutchesons' Grammar School).

### MIDDLE CLASS, 8 and 11 A.M.

1. Alexander R. Mackenzie, Glasgow (George Watson's College).
2. Thomas B. Cameron, Renfrew (Renfrew Grammar School).

### II. Prizes for Latin Prose Composition (Senior and Honours).

#### SECTION I.

1. Peter H. Waddell, Glasgow (Kelvinside Academy).
2. Steuart N. Miller, Glasgow (High School).

#### SECTION II.

1. James E. Scott, Inverness.
2. William Miller, Greenhead.

### III. Vacation Exercises.

1. Open to the Senior Class of 1899-1900. Horace, *Odes III.* By heart.
John MacInnes, Saltcoats.

### LATIN BLACKSTONE EXAMINATION.

#### COWAN GOLD MEDAL.

Harold Wilson, Bearsden (Bearsden Public School).

*Summer Session*, 1900.

LECTURER—WILLIAM W. M'KECHNIE, M.A.

First Prize for General Class Work.
Daniel Gillies.

First Prize for Work in Written Examinations.
Thomas G. Robertson.

## GREEK.

PROFESSOR JOHN S. PHILLIMORE, M.A.

### HONOURS CLASS.

Prizes for Excellence in the Work of the Class.

1. Steuart N. Miller.
2. David G. Taylor, M.A.
3. George S. Gordon (best in Essays).
4. Peter H. Waddell (best in Unseens).

#### FIRST-CLASS CERTIFICATES.

5. John MacInnes.
6. Robert K. Goodfellow.
7. Matthew Stewart.
8. James H. Stevenson.
9. James M. Devine.
10. William J. Auld.
11. Harold Wilson.

### SENIOR CLASS.

JEFFREY GOLD MEDAL—1. William Manson.

#### ORDINARY PRIZES.

2. Charles G. Nelson.
3. Peter Marshall.
4. { James E. Scott.
   Thomas Low.

#### FIRST-CLASS CERTIFICATES.

6. Elias H. Jones.
7. Robert N. Cross.
8. John MacLean.
9. Arthur Shepherd.

SPECIAL PRIZES.

For Weekly Translations { William Manson / Robert Ross.

For Essay { Elias H. Jones. / Robert N. Cross.

For Prose—Peter Marshall.

MIDDLE CLASS.

SCOTT-MACFARLAN GOLD MEDAL—1. Andrew Hutchison.

ORDINARY PRIZES.

2. John Docherty.
3. Robert C. Thomson.

VACATION EXERCISES.

For Repetition { James Moyes. / Robert A. C. Macmillan.

For Written Examination in Philoctetes—John MacInnes.

For Greek Prose { James Moyes. / George S. Gordon.

BLACKSTONE EXAMINATION.

COWAN GOLD MEDAL—John MacInnes.

## ENGLISH LITERATURE.

PROFESSOR WALTER A. RALEIGH, M.A.

HONOURS CLASS.

1st Prize—Charles A. Young.

Early English Text Society Prize for Language—John R. Cameron.

ORDINARY CLASS.

1. Matthew Whiteford (Buchanan Prize).
2. { William H. Andrew, / Alexander P. Crichton, / John M. Hay, } Equal.
5. { James W. Buchan, / Peter H. Waddell, } Equal.
7. { William Brown, / Donald Carswell, } Equal.
9. David Forfar.
10. { Daniel Gillies, / John Guthrie, } Equal.
12. { Theodore D. Dunn, / James Macpherson, } Equal.

HIGHLY COMMENDED.

George Aitken.
Robert W. Barr.
William Bennett.
Samuel N. Forrest.
John Hutcheson.
Sydney M. MacEwen.
William T. Ritchie.

## FRENCH LANGUAGE AND LITERATURE.

LECTURER—CHARLES MARTIN, M.A.

HONOURS CLASS.

Prize offered by His Excellency the Minister of Public Instruction in France.

Marion K. Binnie.

FIRST-CLASS CERTIFICATES.

Catherine Bennie. Maggie Chalmers.

ORDINARY CLASS.

Prize offered by the Paris Committee of the Franco-Scottish Association.

Matthew Whiteford.

University Prize.

Thomas Cant, } Equal.
Arthur Craig, }

FIRST-CLASS CERTIFICATES.

David M'Millan. Robert Irvine.

# WOMEN'S DEPARTMENT.

## Faculty of Medicine.

### SURGERY.

LECTURER—JAMES H. PRINGLE, M.B., F.R.C.S.

MEDAL—Gertrude D. Bostock, B.Sc.

FIRST-CLASS CERTIFICATE—Jessie S. MacEwen.

SECOND-CLASS CERTIFICATES.

Margaret E. Bryson. Janet T. Miller. Jane Campbell.

### PRACTICE OF MEDICINE.

LECTURER—JOHN LINDSAY STEVEN, M.D.

MEDAL—Gertrude D. Bostock, B.Sc.

FIRST-CLASS CERTIFICATES.

Kate Fraser, B.Sc. Jane Campbell.

SECOND-CLASS CERTIFICATES.

Margaret E. Bryson. Margaret H. Smart.
Helen S. Baird, B.A. Janet G. Waddell.

### MIDWIFERY AND GYNÆCOLOGY.

LECTURERS—PROFESSOR MURDOCH CAMERON, M.D., and JOHN M. M. KERR, M.B.

MEDAL—Jane Campbell.

FIRST-CLASS CERTIFICATE—Ethel M. Lochhead.

### INSANITY.

(See under Men's Department).

## OPHTHALMOLOGY.

*Summer Session*, 1900.

Lecturer—A. Maitland Ramsay, M.D.

prize—Martha H. Scott.

first-class certificate—Gertrude D. Bostock.

second-class certificates.

Jessie S. MacEwen. Elizabeth S. M. Ross.

## DISEASES OF THE EAR.

*Summer Session*, 1900.

Lecturer—Thomas Barr, M.D.

first-class certificate—Mary J. Pirie.

## PATHOLOGY.

Lecturer—Charles Workman, M.D.

medal—Gertrude D. Bostock, B.Sc.

first-class certificate—Kate Fraser, B.Sc.

second-class certificates.

Eliza J. Miller. Martha H. Scott.

## PRACTICAL PATHOLOGY.

*Summer Session*, 1900.

Lecturer—Charles Workman, M.D.

medal—Martha H. Scott.

first-class certificate—Jane H. M'Ilroy, M.A.

second-class certificates.

Ethel M. Lochhead. Edith C. Wallace. Margaret H. Smart.

## MEDICAL JURISPRUDENCE AND PUBLIC HEALTH.

*Summer Session*, 1900.

Professor John Glaister, M.D.

medal—Gertrude D. Bostock.

first-class certificates.

Ethel M. Lochead.
Jane Campbell.
Martha H. Scott. } Equal.

second-class certificates.

Margaret H. Smart. Helen S. Baird, B.A.

## ANATOMY.

Lecturer—Thomas H. Bryce, M.A., M.B.

senior anatomy.

medal—Eliza J. Miller.

SECOND-CLASS CERTIFICATES.

Agnes W. Cameron.
Jeanie Auld.
Charlotte R. Park.
Alice W. Maclean.
Roberta Campbell.

### EMBRYOLOGY.

*Summer Session*, 1900.

LECTURER—THOMAS H. BRYCE, M.A., M.B.

FIRST-CLASS CERTIFICATES.

Jessie G. Duncan.
Eliza J. Miller.
Elizabeth T. Talbert, } Equal.
Margaret Hardy, }

SECOND-CLASS CERTIFICATES.

Agnes W. Cameron.
Margaret W. Millar.
Jessie M. Stewart.
Jane R. F. Gilmour.
Alice W. Maclean.
Isabel D. Mitchell.
Mary C. Cameron.
Anna P. Martin.

### PHYSIOLOGY.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S.

SYSTEMATIC CLASS.

SECOND-CLASS CERTIFICATE—Margaret W. Millar.

ADVANCED PRACTICAL PHYSIOLOGY.

(See under Men's Department).

### PRACTICAL PHYSIOLOGY.

*Summer Session*, 1900.

PROFESSOR JOHN G. M'KENDRICK, M.D., LL.D., F.R.S.,
WM. B. BRODIE, M.B., AND JOHN H. TEACHER, M.A., M.B.

MEDAL—Eliza J. Miller.

FIRST-CLASS CERTIFICATES.

Isabel D. Mitchell.
Margaret Hardy.

SECOND-CLASS CERTIFICATES.

Anna P. Martin.
Jessie M. Stewart.
Annie M. Black.

### MATERIA MEDICA AND THERAPEUTICS.

LECTURER—WILLIAM MACLENNAN, M.B.

MEDALS—Annie M. Black, } Equal.
Kate Fraser, B.Sc., }

FIRST-CLASS CERTIFICATES.

Eliza J. Miller.
Elizabeth T. Talbert.

### PRACTICAL PHARMACY.

*Summer Session*, 1900.

LECTURER—WILLIAM MACLENNAN, M.B.

MEDAL—Eliza J. Miller.

FIRST-CLASS CERTIFICATES.

Isabel D. Mitchell, } Equal
Jane R. F. Gilmour, }
Jessie G. Duncan

## BOTANY

LECTURER—WILLIAM E. LANG, D.Sc., M.B.

*Summer Session*, 1900.

SYSTEMATIC.

MEDAL—Jessie D. Rankin.

SECOND-CLASS CERTIFICATES.

Janet R. Aird. Margaret E. Robertson
Mary Spence.

PRACTICAL.

MEDAL—Jessie D. Rankin.

FIRST-CLASS CERTIFICATE—Mary Spence.

SECOND-CLASS CERTIFICATES.

Janet R. Aird. Lily Smellie.

## ZOOLOGY.

PROFESSOR JOHN YOUNG, M.D., AND JAMES RANKIN, B.Sc., M.B.

*Summer Session*, 1900.

SYSTEMATIC.

MEDAL—Margaret E. Robertson.

SECOND-CLASS CERTIFICATE—Jessie D. Rankin.

## PHYSICS.

LECTURER—PROFESSOR JAMES BLYTH, M.A., F.R.S.E.

MEDAL—Elizabeth M. M'Vail.

FIRST-CLASS CERTIFICATES.

Mary Spence. Chrissie G. Thomlinson
Margaret B. Taylor.

SECOND-CLASS CERTIFICATES.

Jeannie T. Clark. Agnes M'Phun.

## CHEMISTRY.

LECTURER—THOMAS GRAY, B.Sc.

SYSTEMATIC CLASS.

MEDAL—Jeannie T. Clark.

FIRST-CLASS CERTIFICATE—Elizabeth M. M'Vail.

SECOND-CLASS CERTIFICATES.

| | |
|---|---|
| Mary Spence. | Jessie D. Rankin, M.A. |

PRACTICAL CLASS.

FIRST-CLASS CERTIFICATES.

| | |
|---|---|
| Jeannie T. Clark. | Elizabeth M. M'Vail. |

SECOND-CLASS CERTIFICATE—Mary Spence.

## Faculty of Arts.

### MATHEMATICS.

(See under Men's Department.)

### NATURAL PHILOSOPHY.

LECTURER—PROFESSOR JAMES BLYTH, M.A., F.R.S.E.

FIRST-CLASS CERTIFICATES.

| | |
|---|---|
| Muriel G. Lindsay, } Equal. | Agnes Picken. |
| Mary A. C. Skinner, } Equal. | Margaret Macintyre. |
| Margaret M. Bickett. | Kathleen M. Nolan. |

### LOGIC AND METAPHYSICS (AT THE UNIVERSITY).

PROFESSOR ROBERT ADAMSON, M.A., LL.D.

(See under Men's Department.)

### LOGIC AND METAPHYSICS (AT QUEEN MARGARET COLLEGE).

LECTURER—NORMAN D. SMITH, M.A.

PRIZE—Annie I. Galbraith.

FIRST-CLASS CERTIFICATE—Dorothy Ackland.

### MORAL PHILOSOPHY (AT THE UNIVERSITY).

PROFESSOR HENRY JONES, M.A., LL.D.

(See under Men's Department.)

### MORAL PHILOSOPHY (AT QUEEN MARGARET COLLEGE).

LECTURER—ROBERT A. DUFF, M.A.

PRIZE—Frances M. M'Phun.

FIRST-CLASS CERTIFICATE—Jane M'Arthur.

### POLITICAL ECONOMY.

(See under Men's Department.)

### EDUCATION.

(See under Men's Department.)

### LATIN.

(See under Men's Department.)

## ENGLISH LANGUAGE AND LITERATURE.

Lecturer—Adolphus A. Jack, M.A., LL.M.

### PRIZES.

1. Margaret M. Reid. Nichol Memorial Prize.
2. Jane I. Robertson.
3. Helen J. Warwick.
4. Hilda E. F. MacArthur.
5. Cecilia J. Waddington.

### FIRST-CLASS CERTIFICATES.

6. { Catherine C. Howatt, } Equal.
   { Jennie Dick, }
8. { Margaret A. Lochhead, } Equal.
   { Agatha R. Runciman, }
10. Isabella M. Fraser.

Prize for Voluntary Examination for last year's students.

Elizabeth L. Cassels.

## FRENCH LANGUAGE AND LITERATURE.

Lecturer—Charles Martin, M.A.

### HONOURS CLASS.

(See under Men's Department.)

### ORDINARY CLASS.

Prize offered by the Paris Committee of the Franco-Scottish Society.

Mary C. Cameron.

University Prize.

Annie I. Galbraith, } Equal.
Jennie Dick, }

### FIRST-CLASS CERTIFICATES.

| | |
|---|---|
| Elizabeth C. Kerr. | Christian P. H. Morton. |

## GERMAN LANGUAGE AND LITERATURE.

Lecturer—G. P. Thistlethwaite, B.A., Ph.D.

### FIRST-CLASS CERTIFICATES.

| | |
|---|---|
| Mary E. Thomson. | Alice M. B. Guthrie. |

## ARABIC.

(See under Men's Department.)

# *XII.—EXAMINATION QUESTIONS.*

## I. PRELIMINARY EXAMINATION IN ARTS AND SCIENCE.

### ENGLISH.

*Saturday*, 30*th March*, 1901.

FIRST PAPER—9 TO 11 A.M.

(FIVE, *and not more than* FIVE, *questions are to be answered. Questions* 1, 2, *and* 6 *must be answered by all.*)

1. Write an essay, of from two to three pages long, on *one* of the following subjects:—

(1) On the Remedies for overcrowding in large Cities.

(2) The character of Edmund in *Lear*, as compared with some of Shakespeare's other "villains."

(3) The Scottish Covenanters as depicted by Scott.

2. Paraphrase:—

> What are we set on earth for? Say, to toil;
> Nor seek to leave thy tending of the vines
> For all the heat o' the day, till it declines,
> And Death's mild curfew shall from work assoil.
> God did anoint thee with His odorous oil,
> To wrestle, not to reign; and He assigns
> All thy tears over, like pure crystallines,
> For younger fellow-workers of the soil
> To wear for amulets. So others shall
> Take patience, labour, to their heart and hand,
> From thy hand and thy heart and thy brave cheer,
> And God's grace fructify through thee to all.
> The least flower, with a brimming cup may stand,
> And share its dew-drop with another near.

3. Give the derivation of *eight* of the following words:—jeopardy, ketchup, poultry, sward, truce, umpire, orison, donkey, counterpane, wedlock, myrmidon, pew, phylloxera, minstrel, bugle.

4. Explain the terms *relative pronoun* and *conjunctive pronoun.* Exemplify the use of each of the relative pronouns and show, especially, how *who* differs in usage from *that.*

5. Re-write, so as to correct or improve, the following sentences, giving reasons for any changes you may make :—

(*a*) Edinburgh has good fortifying purposes, being surrounded by hills, and such places as the house where John Knox lived, etc., are very interesting, and every one flocks to see them.

(*b*) A courtier in the time of Elizabeth, whose father having died early, he was left the charge of a younger brother Robert to whom he was almost as father.

(*c*) I am not obliged to read any book for this examination.

(*d*) As the author of the Laws of Nature, of the material, rational, and animal world, I am indebted to him for every benefit which I have derived from this grand system of divine wisdom and goodness.

6. Give a *general* analysis of this passage, and parse the words in italics :—

Were it not better,
Because that I am more *than common* tall,
That I did suit *me* all points *like* a man?
A gallant *curtle-axe* upon my thigh,
A boar-spear in my hand; and—in my heart
*Lie* there *what* hidden woman's fear there will—
We'll have a swashing and a martial outside,
As many other mannish cowards have
That do outface it with their semblances.

## SECOND PAPER—12 NOON TO 2 P.M.

(EIGHT, *and not more than* EIGHT, *questions are to be answered. Of these,* THREE *must be taken from Section A (and of the* THREE, 3 *must be one*), THREE *from Section B, and* TWO *from Section C.*)

### A.

1. Give a short account of any *three* (but not more) of the following:—Jaques, Griselda, Uncle Toby, *The Castle of Otranto*, *The Faerie Queene*, *Piers Plowman*, Becky Sharp, *Isabella or the Pot of Basil*, *Rizpah*, *Jane Eyre*.

*Or*, Describe concisely the leading characteristics of the poetry of William Wordsworth.

2. Enumerate and comment upon some of the more striking passages, in point of dramatic force or literary excellence, in *King Lear*.

*Or*, Describe and compare the families of King Lear and Gloster.

3. Give some account of the Newcastle-Pitt administration.

*Or*, What were Chatham's opinions on the various constitutional questions under discussion during the first eighteen years of the reign of George III.?

4. Describe any *two* of the following scenes from *Old Mortality*:—Lady Margaret Bellenden dismisses Mause and Cuddie; the arrest of Morton at Milnwood; the trial of Morton by Claverhouse in Tillietudlem Castle; Burley gains Morton over to the Covenanters; the trial of the Covenanters in Edinburgh.

5. Annotate:—

(*a*) "There's your press-money. That fellow handles his bow like a crow-keeper; draw me a clothier's yard. Look, look, a mouse! Peace, peace;—this piece of toasted cheese will do't. There's my gauntlet; I'll prove it on a giant.—Bring up the brown bills. O, well-flown, bird! i' the clout, i' the clout: hewgh! Give the word."

(*b*) "I stumbled when I saw: full oft 'tis seen
Our means secure us; and our mere defects
Prove our commodities."

(*c*) "Enough of blood has been shed; give quarter to the king's misguided subjects."

(*d*) "We are both fanatics; but there is some distinction between the fanaticism of honour and that of dark and sullen superstition."

(*e*) "On the day on which he became a politician, he became a Cabinet minister."

(*f*) "They were the King's friends."

## B.

(*Candidates must in this section take the questions of only* ONE *period.*)

### FIRST PERIOD.—55 B.C. to 1603 A.D.

1. Write brief notes on *four* of the following:—Agricola, Council of Whitby, early names for "Parliament," Anselm, John Balliol, Wyclif, Warwick, James IV., Hertford's Raids in Scotland, the Sea Dogs.

2. Give an account of the statesmanship of any *one* of the following:—Henry II., Simon de Montfort, Thomas Cromwell, Queen Elizabeth.

3. Select as subject for a short historical essay any *one* of the following:—Prelates as Statesmen, the Struggle between Crown and Baronage, Gain and Loss of English Possessions in France, Legal Measures of the Thirteenth Century, Phases of the Reformation in England between 1530 and 1550.

### SECOND PERIOD.—1603-1707.

1. Write brief notes on *four* of the following:—Villiers, Treaty of Berwick, Triennial Bills, Rupert, Second Civil War, Instrument of Government, Royal Society, the Popish Terror, The Declaration of Indulgence, Act of Settlement, the Union of 1707.

2. Write the biography of any *one* of the following:—Pym, Clarendon, William III., Marlborough.

3. Make any *one* of the following the subject of a short historical essay:—The Puritans as political, social, and religious reformers; Various attempts to enforce Episcopacy in Scotland; "The Stuart Kings were all tainted with duplicity"; Condition of Ireland in the Seventeenth Century; Political significance of the Revolution of 1689.

### THIRD PERIOD.

1. Write brief notes on any *four* of the following:—Duchess of Marlborough, Treaty of Utrecht, Caroline of Anspach, Walpole's enemies, Battle of Falkirk, "George, be a king!" Rockingham, Sieges of Gibraltar, Saratoga, Torres Vedras, Peterloo, Reform of Criminal Code, the Holy Alliance.

2. Write a short biography of any *one* of the following:—Bolingbroke, Burke, the Younger Pitt, Nelson.

3. Write a short historical essay on *one* of the following:—The Rise of Cabinet Government; Fall of the Tories in 1714 and of the Whigs in 1760; Philanthropic movements of the Eighteenth Century traceable to the Wesleyan Revival; Gain and Loss of Empire by Britain in the Eighteenth Century; Some effects—political, moral, and literary—of the French Revolution of 1789.

C.

1. Draw a map of Australia, Tasmania, and New Zealand, showing the boundaries between the colonies with their capital cities and other important towns.

2. Indicate generally the extent and population, the climate and other physical characteristics, and the chief productions and industries of the Dominion of Canada.

3. What are the present relations of Egypt towards (1) the Porte, (2) Great Britain, (3) other European Powers?

4. Draw a map of the coast of China (including Korea), with the principal coast towns and neighbouring islands, and indicate the places occupied by European Powers.

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# LOWER LATIN.

*Monday, 1st April, 1901.—9 a.m. to 12 noon.*

I. Translate:—

Eodem anno in Hispania praetores C. Calpurnius et L. Quinctius, cum primo *vere* ex hibernis copias eductas iunxissent, in Carpetaniam, ubi hostium castra erant, progressi sunt, communi animo consilioque parati rem gerere. haud procul Dipone et Toleto urbibus inter pabulatores pugna *orta* est, quibus dum utrimque subvenitur a castris, paulatim omnes copiae in aciem eductae sunt. in eo tumultuario certamine et loca sua et genus pugnae pro hoste fuere. duo exercitus Romani fusi atque in castra compulsi sunt. non *institere* perculsis hostes. praetores Romani, ne postero die castra oppugnarentur, silentio proximae noctis tacito signo exercitum abduxerunt. luce prima Hispani acie *instructa* ad vallum accesserunt, vacuaque praeter spem castra ingressi, quae derelicta inter nocturnam trepidationem erant diripuerunt, regressique in sua castra paucos *dies* quieti stativis manserunt. Romanorum sociorumque in proelio fugaque ad quinque millia occisa, quorum se spoliis hostes armarunt.

(*a*) Parse fully the words in italics in the above.

II. Translate into Latin:

A strange thing happened to us when we were staying at our country house last August. One night a man, dressed in shabby clothes and carrying a stick, came into the garden and asked if he could see my father. When I told him that my father was not at home, and that I did not know when he would return, he asked if I had any brothers, and whether we kept a dog. I said that I had two brothers and a dog. At that moment my father came up, and on seeing him the man looked afraid, and went away without saying anything to him. When we got up next morning, although no sound had been heard in the house during night, we found that the door was open, that the man's stick was lying there, and that the dog was dead. But nothing had been taken out of the house. Until we returned to town, we made constant inquiries; but no one had seen the man, and no one has yet suggested an explanation of the occurrence.

### III.—Grammar.

1. Give the gender and genitive singular of *eques*, *funus*, *flos*, *iter*, *nox*; and write down the nominative plural and genitive plural of *senex*, *mons*, *carmen*, *pater*, *tribus*.

2. Give the comparative and superlative of *iuvenis*, *gracilis*, *nequam*, *audacter*; form adverbs from the adjectives *dignus* and *gravis*; and give the Latin for *twenty*, *twentieth*, *twenty times*, and *two hundred*. Explain the exact meaning of *uter*, *uterque*, *ambo*, *quisque*, *cuncti*, and *a.d. IV. Kal. Feb.*

3. Mention the principal parts of *ludo*, *tango*, *veho*, *vincio*, *taedet*, *soleo*, *loquor*, and *ordior*.

4. Write short Latin sentences to show the proper construction of *interest*, *licet*, *suadere*, *minari*, and *permittere*.

### IV.—Sentences.

Translate:—

1. My father promised to come home as soon as possible.

2. The general, having drawn up his army between the two camps, awaited the enemy.

3. The old man said that, in order to be happy, we must all work diligently.

4. After staying for three months at Syracuse, we started for home again.

## HIGHER LATIN.

*Tuesday, 2nd April*, 1901.

### FIRST PAPER—9 to 11 a.m.

I. Translate into Latin:—

When the old tyrant died in 367, he was succeeded by his son Dionysius II. He was twenty-eight years of age, and neither trained nor fitted for the position which fell to his lot. His father, from motives of jealousy, had kept him away from all positions of influence, and it soon became evident that he was unable to govern an empire which was maintainable only by force. His kinsman Dion negotiated a satisfactory peace with Carthage, and thus Dionysius II. might have enjoyed a peaceful rule. He was not, however, fitted even for government in times of peace. It is true he had sense enough to see that a ruler requires knowledge, and he was desirous of acquiring it. Dion conceived the idea of utilising this want to further a bold scheme. Plato was recalled to Syracuse. Through his influence, thought Dion, the tyrant might become a model prince; at all events, it was not impossible that his presence might have some beneficial results. He returned, and in a short time the Syracusan Court, following the tyrant's example, was deep in the study of geometry and drawing circles in the sand.

### II. GRAMMAR, ETC.

1. Give the principal parts of: *fio, soleo, ordior, tero*; and the exact meanings of: *profecto, nedum, tamen vero, utrumvis, non modo . . . sed ne quidem.*

2. Write the quantity over each syllable in the following words: *facinus, hodie, hominis, radices, reliquit, dicitur, solus, perditus (?)*.

3. Explain the following terms and phrases: *nobilitas,* [illegible], *collegium, evocati, heres ex asse, civitate donatus, patria potestas,* [illegible], *sistere vadimonium.*

4. Scan the following lines:

Sed, nisi peccassem, quid tu concedere possis?
 Materiam veniae sors tibi nostra dedit.
Si, quoties homines peccant, sua fulmina mittat
 Juppiter, exiguo tempore inermis erit.

5. Explain: *hendiadys, syncope, tmesis*; and translate by English proverbial expressions or otherwise: *oleum et operam perdidi*; *festina lente*; *ne sutor ultra crepidam.*

## SECOND PAPER—12 NOON TO 2 P.M.

### I. Translate into English :—

(*a*) Socrates, in pompa cum magna vis auri argentique ferretur, "Quam multa non desidero!" inquit. Xenocrates, cum legati ab Alexandro quinquaginta ei talenta attulissent, quae erat pecunia temporibus illis, Athenis praesertim, maxima, abduxit legatos ad cenam in Academiam; iis apposuit tantum, quod satis esset, nullo apparatu. Cum postridie rogarent eum, cui numerari iuberet, "Quid? vos hesterna," inquit, "cenula non intellexistis me pecunia non egere?" Quos cum tristiores vidisset, triginta minas accepit, ne aspernari regis liberalitatem videretur. At vero Diogenes liberius, ut Cynicus, Alexandro roganti, ut diceret, si quid opus esset, "Nunc quidem paululum," inquit, "a sole." Offecerat videlicet apricanti. Et hic quidem disputare solebat, quanto regem Persarum vita fortunaque superaret; sibi nihil deesse, illi nihil satis umquam fore; se eius voluptates non desiderare, quibus numquam satiari ille posset, suas eum consequi nullo modo posse.

(*b*) Hoc erat in votis; modus agri non ita magnus,
hortus ubi et tecto vicinus jugis aquae fons
et paullum silvae super his foret auctius atque
di melius fecere bene est. nil amplius oro,
Maia nate, nisi ut propria haec mihi munera faxis.

Si neque majorem feci ratione mala rem
nec sum facturus vitio culpave minorem;
si veneror stultus nihil horum: "O si angulus ille
proximus accedat, qui nunc denormat agellum!"
"O si urnam argenti fors quae mihi monstret! ut illi,
thesauro invento qui mercenarius agrum
illum ipsum mercatus aravit, dives amico
Hercule!" si, quod adest, gratum juvat, hac prece te oro
pingue pecus domino facias et cetera praeter
ingenium, utque soles, custos mihi maximus adsis.

### II. Sentences.

1. At the foot of the mountain there was a severe rather than a long fight.

2. What can it matter to me whether I am well or ill spoken of by my fellow-countrymen? Ought I to obey man rather than God?

3. The father told his sons to do, as soon as possible, everything that ought to be done, and not to trouble him with further questions.

4. *Put into Latin in epistolary style*: April 2nd, 1901. My dear son, I write to learn how you are getting on in my absence. Write back immediately.—Your affectionate father, Julius.

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## LOWER GREEK.

*Saturday*, 30*th March*, 1901—3 TO 6 P.M.

I. Translate :—

*Λύσανδρος δὲ τούς τε φρουροὺς τῶν Ἀθηναίων καὶ εἴ τινά που ἄλλον ἴδοι Ἀθηναῖον, ἀπέπεμπεν εἰς τὰς Ἀθήνας, διδοὺς ἐκεῖσε μόνον πλέουσιν ἀσφάλειαν, ἄλλοθι δ' οὔ, εἰδὼς ὅτι ὅσῳ ἂν πλείους συλλεγῶσιν εἰς τὸ ἄστυ καὶ τὸν Πειραιᾶ, θᾶττον τῶν ἐπιτηδείων ἔνδειαν ἔσεσθαι. καταλιπὼν δὲ Βυζαντίου καὶ Καλχηδόνος Σθενέλαον ἁρμοστὴν Λάκωνα, αὐτὸς ἀποπλεύσας εἰς Λάμψακον τὰς ναῦς ἐπεσκεύαζεν.*

*Ἐν δὲ ταῖς Ἀθήναις τῆς Παράλου ἀφικομένης νυκτὸς ἐλέγετο ἡ ξυμφορά, καὶ ἡ οἰμωγὴ ἐκ τοῦ Πειραιῶς διὰ τῶν μακρῶν τειχῶν εἰς ἄστυ διῆκεν, ὁ ἕτερος τῷ ἑτέρῳ παραγγέλλων· ὥστ' ἐκείνης τῆς νυκτὸς οὐδεὶς ἐκοιμήθη, οὐ μόνον τοὺς ἀπολωλότας πενθοῦντες, ἀλλὰ πολὺ μᾶλλον ἔτι αὐτοὶ ἑαυτούς, πείσεσθαι νομίζοντες οἷα ἐποίησαν Μηλίους τε Λακεδαιμονίων ἀποίκους ὄντας, κρατήσαντες πολιορκίᾳ καὶ Ἱστιαιέας καὶ Σκιωναίους καὶ Τορωναίους καὶ Αἰγινήτας καὶ ἄλλους πολλοὺς τῶν Ἑλλήνων.*

*τῆς Παράλου*, one of Athenian sacred galleys.

### II. Grammar.

1. Give the genitive singular of *ἰχθύς, πέλεκυς, κόρυς, χάρις, ἐλπίς, πόλις*; the accusative singular of *γίγας, λαμπάς, κρέας, ἔρις, ἀκτίς, ὄρνις*; the dative plural of *λιμήν, μήν, λέων, χειμών, μήτηρ, θήρ*.

2. Compare *γεραιός, λάλος, ἴσος, σαφῶς, ταχέως*. Give the accusative singular and dative plural in all genders of *πρᾶος, σῶς, χαρίεις, λυθείς*.

3. Give the dative singular and plural of [illegible]; Give the Greek for—*Which of two? How large? Of what kind? Eight times, Threefold, Twice as large, Two by two, All the rest.*

4. Conjugate [illegible].

5. Give the Greek for—*So far as I am concerned; To be one's own master; As quickly as possible; In a word*; and English for [illegible]

III. Translate into Greek :—

(1) Do not associate with such men as these.

(2) He sent a messenger to say that he would come whenever it was necessary.

(3) If they had been wise they would have fortified the city before the enemy arrived.

(4) If any man is to blame for his death it is you.

(5) We shall make peace on condition that the city is not destroyed

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## HIGHER GREEK.

*Wednesday, 3rd April, 1901.*

### FIRST PAPER—9 to 11 A.M.

I. Translate :—

[illegible]

II. Translate *one* of the following passages :—

(a) A. [illegible]

B. [illegible]

κακὴ γυνὴ Μήδεια, Πηνελόπη δέ γε
μέγα πρᾶγμ'. ἐρεῖ τις ὡς Κλυταιμνήστρα κακή.
'Αλκηστιν ἀντέθηκα χρηστήν. ἀλλ' ἴσως
Φαίδραν ἐρεῖ κακῶς τις· ἀλλὰ νὴ Δία
χρηστή τις ἦν μέντοι—τις ;—οἴμοι δείλαιος
ταχέως γε μ' αἱ χρησταὶ γυναῖκες ἐπέλιπον,
τῶν δ' αὖ πονηρῶν ἔτι λέγειν πολλὰς ἔχω.

(*b*) οὗτος δ' Αἴας ἐστὶ πελώριος ἕρκος 'Αχαιῶν·
'Ιδομενεὺς δ' ἑτέρωθεν ἐνὶ Κρήτεσσι θεὸς ὣς
ἕστηκ', ἀμφὶ δέ μιν Κρητῶν ἀγοὶ ἠγερέθονται.
πολλάκι μιν ξείνισσεν 'Αρηΐφιλος Μενέλαος
οἴκῳ ἐν ἡμετέρῳ, ὁπότε Κρήτηθεν ἵκοιτο·
νῦν δ' ἄλλους μὲν πάντας ὁρῶ ἑλίκωπας 'Αχαιούς,
οὕς κεν ἐῢ γνοίην καὶ τ' οὔνομα μυθησαίμην·
δοιὼ δ' οὐ δύναμαι ἰδέειν κοσμήτορε λαῶν,
Κάστορά θ' ἱππόδαμον καὶ πὺξ ἀγαθὸν Πολυδεύκεα,
αὐτοκασιγνήτω, τώ μοι μία γείνατο μήτηρ.
ἢ οὐχ ἑσπέσθην Λακεδαίμονος ἐξ ἐρατεινῆς,
ἢ δεύρω μὲν ἕποντο νέεσσ' ἔνι ποντοπόροισιν,
νῦν αὖτ' οὐκ ἐθέλουσι μάχην καταδύμεναι ἀνδρῶν,
αἴσχεα δειδιότες καὶ ὀνείδεα πόλλ', ἅ μοί ἐστιν.

## SECOND PAPER.—12 NOON to 2 P.M.

### I.—SENTENCES.

1. When Alexander the Great was marching through the country of the Gadrosians, the army endured great sufferings owing to the heat and the scarcity of water.

2. Many of the soldiers fell by the way, overpowered by fatigue, and being unable to overtake their comrades perished in the desert.

3. It was on this expedition that Alexander is said to have performed what many regard as the noblest action of his life.

4. Some of the light-armed had started from the army in quest of water, and finding a small spring they filled a helmet from it and hastened back to offer their general the precious gift.

5. Alexander, though suffering great pain, was leading the army on foot; taking the helmet in his hands he thanked the men who had brought it, but poured the water on the ground before the eyes of all.

6. So inspirited were the soldiers at the sight that they marched on as though every man had drunk the water which Alexander had poured away.

### II.—GRAMMAR.

1. Conjugate *πετάννυμι, κλέπτω, ἕλκω, ὀρύσσω, σφάλλω, πωλῶ, δύω, χέω.*

2. Write the infinitive perfect middle or passive of *σπείρω, ἀλλάσσω, ὁρῶ, τείνω.* Distinguish *ἵη, ἰῇ ; ἐφῇ, ἔφη.* Parse *εἶσο.*

3. Distinguish *νοσεῖν, νοσῆσαι ; τιμορῶ σοι, τιμωροῦμαί σε ; ἐπίσταμαι δρᾶν, ἐπίσταμαι δρῶν.* Translate : *ἑάλω ἀσεβείας ; φεύγειν φόνου ; φεύγειν ὑπὸ τοῦ δήμου ; ὅσον οὐκ ἀπώλετο.*

4. Translate and remark on the syntax of—

(1) οὐχ ὅτι ἔφυγεν ἀλλ' ἐνίκησεν.
(2) οὐκ ἔφη αὐτὸς ἀλλ' ἐκεῖνον στρατηγεῖν.
(3) αἰσχρὸν μὴ οὐ προθυμεῖσθαι.
(4) ἐρωτᾷ εἰ οὐκ αἰσχύνομαι τοιαῦτα δρῶν.
(5) εὐδαιμονίζω σε τοῦ τρόπου.

5. Write in the direct form :—

(*a*) (ἀπεκρίνατο ὅτι) μανθάνοιεν ἃ οὐκ ἐπίσταιντο.
(*b*) (ἀπεκρίνατο ὅτι) μανθάνοιεν ἃ μὴ ἐπίσταιντο.

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# LOWER MATHEMATICS.

*Monday, 1st April,* 1901—2 TO 5 P.M.

(*Candidates may obtain* FULL *marks by doing about two-thirds of this paper. But the Examiners may reject a candidate who shows exceptional weakness in any of the sections A, B, C.*

*Answers, where work is not shown, will not be awarded marks.*)

## A.

1. Reduce to its simplest form

$$\frac{2\tfrac{1}{[illegible]} \text{ of [illegible] of } 14\tfrac{1}{[illegible]}}{\text{[illegible] of } 7\tfrac{1}{[illegible]} \text{ of } 1\tfrac{1}{[illegible]}} \div \frac{7\tfrac{1}{[illegible]}}{1 - \dfrac{\text{[illegible] of [illegible]}}{7}}.$$

2. Divide 720 into three parts so that four times the first part, five times the second part, and six times the third part shall all be equal.

3. Find the cost of papering the walls of a room 121 feet long by 29 feet wide, by 12 feet high, with a paper which is 18 inches broad, when a roll of paper 12 yards long costs 3s. 1½d.

4. If 3 per cent. of a company's capital is £75, and if the whole capital is $\cdot\dot{7}1428\dot{5}$ of the combined capitals of three other companies whose capitals are in the ratios to each other of the numbers 3, 5, and 7, find the capitals of all the four companies.

5. What sum of money must be lent for 5½ years at 2½ per cent. simple interest, so that it amounts at the end of the time to £814. 10s.?

6. Assuming that the square on the hypotenuse of a right angled triangle is equal to the sum of the squares on the sides, find the second side to three places of decimals, if the hypotenuse is 31 inches, and the first side 30 inches.

## B.

7. A father's age is four times that of his eldest son and five times that of his youngest. When the eldest son has lived to three times his present age, the father's age will exceed twice that of his youngest son by three years. Find their present ages.

8. Find the factors of

(i.) $(bc + ca + ab)^2 - (b^2c^2 + c^2a^2 + a^2b^2)$ ;
(ii.) $(a + 2b)a^3 - (b - 2a)b^3$.

9. Simplify

(i.) $\dfrac{a^2-(b-c)^2}{(a+b)^2-c^2}+\dfrac{b^2-(c-a)^2}{(b+c)^2-a^2}+\dfrac{c^2-(a-b)^2}{(c+a)^2-b^2}$;

(ii.) $\dfrac{a+b}{ab+c^2-ac-bc}+\dfrac{a+c}{ac+b^2-ab-bc}+\dfrac{b+c}{bc+a^2-ab-ac}$.

10. Solve

(i.) $\dfrac{x^2-6x+10}{x^2+8x+17}-\dfrac{(x-3)^2}{(x+4)^2}=0$;

(ii.) $\sqrt{(x-a)}+\sqrt{(x-b)}=\sqrt{(a-b)}$.

11. Find the two times between 7 and 8 o'clock when the hour and minute hands are separated by 15 minutes.

12. Arrange in powers of $x$

$$\left(\frac{x^2}{a^2}+\frac{a^2}{x^2}-\frac{x}{a}-\frac{a}{x}+1\right)\left(\frac{x}{a}-\frac{a}{x}\right).$$

13. Solve

$$\frac{x}{a}+\frac{y}{b}+\frac{z}{c}=1.$$

$$\frac{x}{a}+\frac{y}{c}+\frac{z}{b}=1.$$

$$\frac{x}{b}+\frac{y}{a}+\frac{z}{c}=1.$$

## C.

14. If from the ends of the base of a triangle straight lines be drawn to a point inside it, show that their sum is less than the sum of the two sides but that they include a greater angle.

If two triangles on the same side of the same base have equal vertical angles, each vertex lies outside the other triangle.

15. If the square described on one of the sides of a triangle is equal to the squares described on the other two sides, prove that the angle contained by these two sides is a right angle.

Show how to divide a straight line into two parts so that the sum of the squares on the parts shall be equal to the square on a given line.

16. In an obtuse-angled triangle the square on the side opposite to the obtuse angle exceeds the sum of the squares on the other two sides, by twice the rectangle on either of these sides, and the part of its production from the obtuse angle to the foot of the perpendicular on it from the opposite angle.

In the isosceles triangle $ABC$, $AB=AC$, and $AB$ is produced beyond the base till $BD=BA$, show that $CD^2=AB^2+2BC^2$.

17. The greater of two unequal chords of a circle is nearer the centre than the less.

Show that it subtends at the centre a greater angle than the less.

18. On a given finite straight line as chord describe a segment of a circle which shall contain an angle equal to a given angle.

The triangle $ABC$ has within it a point $O$ such that the angles $AOB$, $BOC$, $COA$ are all equal. Give a construction to find the point.

# INTERMEDIATE AND HIGHER MATHEMATICS.

*Thursday, 4th April, 1901.*

FIRST PAPER 9 TO 11 A.M.

*(Candidates may obtain FULL marks by doing correctly about two-thirds of this paper; but the Examiners may reject a candidate who shows exceptional weakness in any of the sections A, B, C.*

*The pass mark for Intermediate Candidates is fixed with reference to the total number of marks assigned to questions which fall under the Syllabus of the Intermediate Standard; but such candidates will receive credit for any question they may answer.*

*Answers, where work is not shown, will not be awarded marks.*

*The papers must be marked I. and II. by the candidate on separate books.)*

## A.

1. A merchant purchases 2¼ cwts. of tea at £13. 1s. 8d. per cwt. and 1¼ cwts. at £18. 2s. He mixes them and sells the mixture at 3s. 1½d. per lb. What is the profit per lb. and the profit per cent. on the outlay?

2. What value other than zero must be given to $a$, so that $x^3 - x - a$ and $x^2 + x - a$ may have a common factor, and what is their highest common factor when $a$ has this value?

3. Solve $$\frac{x}{a+b} + \frac{y}{a-b} = 2a, \quad \frac{x-y}{2ab} = \frac{x+y}{a^2+b^2}.$$

4. Solve $$\sqrt{2x-9} + \sqrt{x-4} = \sqrt{x+1}.$$

5. Solve $$(x-a-2b)^3 - (x-2a-b)^3 = (a-b)^3.$$

6. Solve $$x^2 + xy + x = 14,$$ $$y^2 + xy + y = 28.$$

7. A battalion of soldiers formed into a solid square has 12 men fewer in front than when formed into a hollow square 3 deep; what is the number of soldiers?

8. If $a(y+z) = b(z+x) = c(x+y)$, show that $$\frac{y-z}{a(b-c)} = \frac{z-x}{b(c-a)} = \frac{x-y}{c(a-b)},$$ provided that $a$, $b$ and $c$ be all unequal and none of them zero.

9. What is the ratio of $x$ to $y$ if $\frac{2x^2 - y^2}{7} = \frac{xy}{15}$?

10. If $a : b = c : d$, show that $ab + cd$ is a mean proportional between $a^2 + c^2$ and $b^2 + d^2$.

## B.

11. Draw a tangent to a circle from a point outside it. Show that there are always two equal tangents.

Draw a common tangent to two unequal circles which intersect.

12. Construct a triangle which is isosceles with the vertical angle half of either base angle.

In the figure show that the smaller circle is equal to the circle circumscribing the triangle.

13. In a right-angled triangle, if a perpendicular be drawn from the right angle on the hypotenuse, the perpendicular is a mean proportional between the segments of the hypotenuse, and each side a mean proportional between the hypotenuse and the segment adjacent to itself.

If $ABC$ is the right-angled triangle and $AD$ the perpendicular on the hypotenuse and $DE$, $DF$ perpendiculars on the sides, show that a circle will pass through $B$, $C$, $E$, $F$.

14. If the bisector of the vertical angle of a triangle meet the base, show that the rectangle under the sides enclosing the angle is equal to the rectangle under the segments of the base together with the square on the bisector.

If $I$ be the centre of the inscribed circle and $E$ the point where the bisector of the angle $A$ meets the circum-circle, show that the rectangle $AI.IE$ is equal to the rectangle under the diameter of the circum-circle and the radius of the in-circle.

15. If one of four lines which meet in a point is perpendicular to the other three, these three lines lie in one plane.

Show that the curve in which two spheres intersect is a circle.

### C.

16. If $\theta$ be an angle less than $90^\circ$ and $\tan\theta + \sec\theta = 1{\cdot}5$, find $\sin\theta$, and verify the given equation.

17. The angle of elevation of the top of a tower is observed to be $60^\circ$, and from the top of a wall 30 feet above the first point of observation it is $45^\circ$, find the height of the tower and its horizontal distance from the first point of observation—given $\sqrt{3} = 1{\cdot}732$.

18. Show that in any triangle $ABC \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$, $R$ being the radius of the circum-circle.

19. Given $a = 25$, $b = 24$, $A = 72^\circ 5'$, find the angles $B$ and $C$ from the following data: $\log 2 = {\cdot}3010$, $\log 3 = {\cdot}4771$.

$\text{Log} \sin 72^\circ 5' = 9{\cdot}9784$. $\text{Log} \sin 65^\circ 57' = 9{\cdot}9605$.

Is there any ambiguity about these angles?

## SECOND PAPER.—12 NOON TO 2 P.M.

*(Candidates may obtain* FULL *marks by doing correctly about two-thirds of the questions in each section of this paper. But the Examiners may reject a candidate who shows exceptional weakness in any of the sections A, B, C.*

*The pass mark for Intermediate Candidates is fixed with reference to the total number of marks assigned to questions which fall under the Syllabus of the Intermediate Standard; but such candidates will receive credit for any question they may answer.*

*Answers, where work is not shown, will not be awarded marks.*

*The papers must be marked I. and II. by the candidates on separate books.)*

### A.

1. If [illegible]ths of 1 oz. troy of silver cost 29[illegible]d., find the number (correct to 4 figures) of grammes a florin should weigh if [illegible]ths of its weight be pure silver, given 1 gramme = 15·432 grains.

2. Simplify

$$\frac{(x-b)(x-c)}{a^2+bc-ab-ac}+\frac{(x-c)(x-a)}{b^2+ca-ab-bc}+\frac{(x-a)(x-b)}{c^2+ab-ac-bc}.$$

Factorise $6x^2+3xy-18y^2-14x+42y-12$.

3. Prove that the remainder when $3x^5-7x^3+23$ is divided by $x+2$ is the same as the remainder when $48x^4-20x^2+18x$ is divided by $2x+1$.

4. A passenger from London to Edinburgh gets 100 lbs. of luggage free and from Edinburgh to London 60 lbs. free. His excess charges are 1s. one way and 4s. 4d. the other. Find the amount of his luggage and the rate charged, the rate per lb. for excess being the same either way.

5. If $\alpha$ and $\beta$ are the roots of $ax^2+bx+c=0$, find the value of $\alpha$ and $\beta$, and the relation between $a$, $b$ and $c$ if $\alpha=2\beta+1$.

6. Find $a$, $b$, $c$ so that $2x^2-10x+2$ may be identically equal to $(ax+b)(x-3)+c(x^2+2x+5)$.

7. Solve $5x-3y=2xy$, $2y^2+4x=6xy-9y$, $\frac{2}{x}-\frac{1}{y}=\frac{5}{2y}$.

### B.

8. If two triangles of equal area are on opposite sides of the same base, shew that the line joining their vertices is bisected by the base.

$ABC$ is a triangle, $DE$ is parallel to $BC$ and meets $AB$ and $AC$ in $D$ and $E$ respectively. If $AF$ bisects $BC$, prove that it also bisects $DE$.

9. If a straight line is bisected and divided unequally at any point, the sum of the squares on the two unequal parts is equal to twice the sum of the squares on half the line and on the line between the points of section.

$ABCDE$ is a straight line, $F$ is the mid-point of $AB$, $G$ of $CD$, and $H$ of $FG$. Prove that the sum of the squares on $AE$, $BE$, $CE$, $DE$ is equal to the sum of the squares on $AH$, $BH$, $CH$, $DH$ together with four times the square on $EH$.

10. If a chord of a circle be drawn from the point of contact of a tangent, the angles made by the chord and tangent are equal to the angles in the alternate segments made by the chord.

If two circles have internal contact and a chord of the larger touch the inner, prove that the segments of the chord made by its point of contact subtend equal angles at the common point of the two circles.

11. If two triangles have one angle of the one equal to one angle of the other, and the sides about one other angle in each proportional, so that the sides opposite the equal angles are homologous, the triangles have their third angles either equal or supplementary; and in the former case the triangles are similar.

$ABC$ is a triangle, and the straight line $DFE$ cuts $AB$, $BC$, $CA$ in $D$, $F$, and $E$ respectively, so that $DB : CE = BF : FC$. Prove that $DAE$ is an isosceles triangle.

12. Straight lines which are perpendicular to the same plane are parallel.

$AB$ and $CD$ are perpendicular to a plane $BDE$. The plane through $C$ perpendicular to $AC$ meets the plane $BDE$ in $EF$. Prove that $EF$ is perpendicular to $BD$.

C.

13. The moon's diameter subtends an angle of $30'$ at the eye. How far away from the eye must a circular disk 1 foot in diameter be placed so as just to hide the moon? [$\pi = 3 \cdot 1416$.]

14. Define the secant of an angle of any magnitude, and express it in terms of the cotangent.

Prove $\dfrac{\tan A}{\tan A - \tan B} = \dfrac{\cot B}{\cot B - \cot A}$.

15. Prove $\tan(180^\circ - A) = -\tan A$.

With the help of tables find the general solution of

$$3 \sin x + 4 \cos x = 5.$$

16. If $A$, $B$, $C$ be the angles of a triangle, prove

$$\sin(B + C - A) - \sin(C + A - B) + \sin(A + B - C)$$
$$= 4 \cos A \sin B \cos C.$$

## FRENCH.

*Tuesday, 2nd April,* 1901.

FIRST PAPER—3 TO 4.30 P.M.

Translate into French :—

1. It would be an extremely profitable thing to draw up a short and well-authenticated account of the habits of study of the most celebrated writers of whose style of literary industry we happen to be most acquainted. It would go very far to destroy the absurd and pernicious association of genius and idleness, by showing men that the greatest poets, orators, statesmen, and historians—men of the most brilliant and imposing talents—have actually laboured as hard as the makers of dictionaries and the arrangers of indices, and that the most obvious reason why they have been superior to other men is that they have taken more pains than other men.

Burke was the most laborious and indefatigable of human beings; Leibnitz was never out of his library; Pascal killed himself with study; Cicero narrowly escaped death by the same cause; Milton was at his books with as much regularity as a merchant or an attorney—he had mastered all the knowledge of his time; so had Homer.

SIDNEY SMITH.

2. (1) To read without reflecting, is like eating without digesting.

Ed. Burke.

(2) *A reason for calling.*—Visitor (naively): Well, I certainly never dreamt I should find you at home on such a lovely afternoon as this!

*Punch.*

(3) Mr. Rector, I beg you leave to stay at home to-morrow.

## SECOND PAPER, 3 TO 5 P.M.

I. Translate into English:—

(*a*) Si j'étais riche, je n'irais pas me bâtir une ville en campagne et mettre au fond d'une province les Tuileries devant mon appartement. Sur le penchant de quelque agréable colline bien ombragée, j'aurais une petite maison rustique, une maison blanche avec des contrevents verts; et, quoiqu'une couverture de chaume soit en toute saison la meilleure, je préférerais magnifiquement, non la triste ardoise, mais la tuile, parce qu'elle a l'air plus propre et plus gai que le chaume, qu'on ne couvre pas autrement les maisons dans mon pays, et que cela me rappellerait un peu l'heureux temps de ma jeunesse.

J'aurais pour cour une basse-cour, et pour écurie une étable avec des vaches, pour avoir du laitage que j'aime beaucoup. J'aurais un potager pour jardin, et pour parc un joli verger. Les fruits, à la discrétion des promeneurs, ne seraient ni comptés ni cueillis par mon jardinier, et mon avare magnificence n'étalerait point aux yeux des espaliers superbes auxquels à peine on osât toucher. J. J. Rousseau (*Emile*).

(*b*) Une grenouille vit un bœuf
Qui lui sembla de belle taille.
Elle, qui n'était pas grosse en tout comme un œuf,
Envieuse, s'étend, et s'enfle, et se travaille,
Pour égaler l'animal en grosseur,
Disant: "Regardez bien, ma sœur;
Est-ce assez? dites-moi; n'y suis-je point encore?
—Nenni.—M'y voici donc?—Point du tout.—M'y voilà?
—Vous n'en approchez point . . . La chétive pécore
S'enfla si bien qu'elle creva.

La Fontaine, *Fables*, Livre i.

## II. Grammar.

1. State the difference in meaning between:—

*tenir à*, and *tenir de*.
*toucher*, and *toucher à*.
*garder*, and *se garder de*.
*servir de*, and *se servir de*.
*vouloir*, and *en vouloir à*.
*attendre*, and *s'attendre à*.

2. Point out some of the uses of the French preposition *de*. Give examples of French sentences in which *de* is to be translated into English by:—*of*, *from*, *by*, *with*, *about*, *for*, *on*.

3. Re-write the above French verse text for translation, using the plural: *Des grenouilles*, instead of the singular: *Une grenouille*, and making all other necessary alterations throughout the fable.

### III. Philology and Literature.

(*Only* ONE *question to be attempted.*)

1. Describe the *character* of Hernani, or that of Ruy Blas, or that of Chatterton.

2. What is *the subject-matter* of any *one* of the following works :—

De l'Allemagne
Le Génie du Christianisme.
Jocelyn.
Notre-Dame de Paris.
François le Champi.
Eugénie Grandet.
Colomba.

3. Draw a parallel between Mignet, Guizot, Thiers, and Michelet as historians.

4. What were the sources of the French vocabulary?

5. Name all the French words that you know being derived from the same root as : *lait*, *fleur*, *poser*, *mouvoir*.

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## GERMAN.

*Wednesday*, 3rd *April*, 1901..

### FIRST PAPER—3 to 4.30 p.m.

(*Candidates may use either English or German script.*)

Translate into German :—

(*a*) King Pheres being especially fond of beholding beauty, ordered a statue to be made of white stone. In order to adorn it still more, the artist was to carve the hair of its head out of gold; and that the people might not dare to break into the shrine by night and steal away the gold, Pheres ordered that it should be proclaimed that whoever took away even a toe of the statue should be put to death. But a certain man despising the king's orders, on the second night after the statue was put up, secretly stabbed the guards and went off with the golden hair. Being caught, however, he pleaded that it was not right he should be put to death. For he had but been in to look at the marble maiden, but seeing her gold hair he bethought himself of the sculptor, whose hair was red. But since it was not just that the work should be grander than the workman, he thought it necessary to remove the hair.

(*b*) 1. I do not know what has come over you that you look so gloomy to-day.

2. Though I suffer much I am not allowed to complain.

3. Beware of promising what you would be unable to perform.

4. You seem to me to be quite at a loss what to say.

5. I know that if you were in my place you would do the same as I am doing.

*Friday*, 5*th April*, 1901.

## SECOND PAPER—9 TO 11 A.M.

**I. Translate into English :—**

(*a*) Von ſolchem Standpunkt verläuft das Leben einer Nation in einer unaufhörlichen Wechſelwirkung des Ganzen auf den Einzelnen und des Mannes auf das Ganze. Jedes Menſchenleben, auch das kleine, giebt einen Teil ſeines Inhalts ab an die Nation, in jedem Manne lebt ein Teil der ſchöpferiſchen Geſammtkraft, er trägt Seele und Leib aus einer Generation in die andere, er bildet die Sprache fort, er bewahrt das Rechtsbewußtſein, alle Reſultate ſeiner Arbeit kommen dem Ganzen wie ihm ſelbſt zu gute. Millionen leben ſo, daß der Inhalt ihres Daſeins ſtill und unbemerkbar mit dem großen Strome zuſammenrinnt. Nach allen Richtungen aber entwickeln ſich aus der Menge bedeutende Perſönlichkeiten, die als geſtaltende größeren Einfluß auf das Ganze gewinnen. Zuweilen erhebt ſich eine gewaltige Menſchenkraft, welche in großen Gebieten auf eine Zeit lang das übermenſchliche Leben des Volkes beherrſcht und einer ganzen Zeit das Gepräge eines einzelnen Geiſtes aufdrückt.

GUSTAV FREYTAG.

(*b*) Der Schiffbruch.

Mitten in des Weltmeers wilden Wellen
Scheiterte das Schiff. Die Edlen retten
Sich im Fahrzeug. „Wo iſt Don Alonſo?"
Riefen ſie. Er war des Schiffes Prieſter.
„Reiſet wohl, ihr Freunde meines Lebens,
Bruder, Oheim," ſprach er von dem Borde,
„Meine Pflicht beginnt, die eure endet."
Und er eilt hinunter in des Schiffes
Kammern, ſeine Sterbenden zu tröſten,
Höret ihre Sünden, ihre Buße,
Ihr Gebet und wehret der Verzweiflung,
Labet ſie und geht mit ihnen unter.
Welch ein Geiſt war größer? Jenes Cato,
Der im Zorne ſich die Wunden aufriß,
Oder dieſes Prieſters, der, den Pflichten
Seines Amtes treu, im Meer erſinket?

JOHANN GOTTFRIED VON HERDER.

### II. Grammar.

1. What are the cases governed by : *erwähnen*, *entnehmen*, *befolgen*, *folgen*, *sich rühmen*.

2. Translate these idioms :—

(*a*) Das läßt ſich nicht läugnen.
(*b*) Einen zum Beſten haben.
(*c*) Wie es ſich trifft.
(*d*) In's Blaue hinein reden.
(*e*) Es geht nicht mit rechten Dingen zu.

3. Parse :—*Böte*, *bete*, *bäte*, *genas*, *genosz*, *läge*, *löge*, *zöge*, *betrog*, *betrug*.

4. Distinguish :—*Der Hut*, *die Hut* ; *der Leiter*, *die Leiter* ; *der Verdienst*, *das Verdienst* ; *der Kunde*, *die Kunde*.

### III. Philology and Literature.

(*Only* ONE *question to be attempted.*)

1. Give one English word cognate with each of the following German words :—*Zug*, *Zeit*, *wissen*, *werden*, *schlagen*, *tapfer*, *gleich*, *zahlen*, *Mädchen*, *Knabe*.

2. From what verbs are the following nouns derived :—*Flusz*, *Zucht*, *Bucht*, *Freude*, *Andacht*, *Ankunft*, *Vorsicht*, *Gruft*, *Schnitt*, *Verlust*.

3. Write a short account of the life and writings of Heine.

4. Give the narrative of two of Uhland's Ballads.

## DYNAMICS.

*Friday*, *5th April*, 1901—1 TO 4 P.M.

(*Candidates may obtain* FULL *marks by doing about two-thirds of this Paper. Answers, where work is not shown, will not be awarded marks.*)

1. Define acceleration? Prove that $s = ut + \frac{1}{2}ft^2$, in the usual notation. What does an acceleration of 980 in centimetre and second units become when expressed in kilometre and hour units?

2. Two points $A$ and $B$ are in motion in different directions. Show how to find the velocity of $A$ relatively to $B$.

A river is 3 miles wide and runs at 3 miles an hour. Find the tangent of the angle which must be made with the bank by a boat which can move at 5 miles an hour in order that it may go straight to a point one mile up stream on the opposite bank.

3. Define momentum and impulse. Give the third law of motion, and show how it determines the relation between the velocity of a shot and the velocity of recoil of the gun.

If the gun be 50 times the weight of the shot and make an angle $\tan^{-1}\frac{1}{3}$ with the horizon, prove that the vertical and horizontal components of the velocity of the shot will be in the ratio of 17 to 50, the gun recoiling horizontally.

4. Define energy, kinetic energy, and potential energy. Prove that the sum of the kinetic and potential energies of a body falling freely under gravity is constant.

A particle weighing one gram falls from a height of 16·9 metres. One second later another equal particle is thrown up from the ground in the same straight line with a velocity of 4·2 metres per sec. Find their kinetic energies when they meet. ($g = 980$ c.g.s. units.)

5. Describe shortly an Atwood's machine, working out the formulae for finding the acceleration and the tension of the string, and show how the apparatus may be used to find $g$.

If the masses be each 200 grammes and the rider 15 grammes, find the acceleration and the tension of the string.

6. Find, in terms of the magnitude and direction of the initial velocity, the range on the horizontal plane through the point of projection for an unresisted projectile.

Find the velocity at any point of the path and the level from which it must fall freely in order to acquire this velocity.

7. Show how to find the magnitude and direction of the resultant of any number of forces in one plane acting on a particle.

Find the magnitude of the resultant of forces $P$, $6P$ and $9P$, when the second force makes 60° with each of the others.

8. Define a couple and its moment. Prove that two couples in one plane with equal and opposite moments will balance each other.

A thin ring, weighing 200 grammes and of 8 cm. diameter, rests in equilibrium in an inclined position round a vertical post whose circular cross-section has a diameter of 4 cm. The highest point of the ring is caught on a slight projection from the post. Find the reaction between the post and the lowest point of the ring.

9. Define the centre of gravity of a body. If a body be suspended by a string, prove that the centre of gravity is in the same line as the string.

Find the centre of gravity of a plane uniform lamina in the shape of a triangle.

10. Define the mechanical advantage of a lever or other "mechanical power." Find it for a smooth screw in terms of the arm of the "power" and the "step" or interval between successive threads of the screw.

Find the advantage in the case of a system of two movable pulleys, each $\frac{1}{20}$ of the weight raised, when all the strings are fastened to the supporting beam.

11. State the laws of statical friction. If a body be placed on a plane which is slowly tilted until it begins to slide down, find the relation between the inclination at which this takes place and the coefficient of friction between the body and the plane.

A mass of 200 kilogrammes is pushed up a rough inclined plane by a force parallel to the plane. If the coefficient of friction be [illegible], and if the base of the plane measure 3 metres and the height 2, find the work done.

12. Define pressure at a point in a fluid. Prove the law of variation of pressure with the depth in a heavy liquid.

A U-tube contains mercury. Sufficient water is poured into one arm to fill 5 cm. of the tube. Find the difference of level between the top of the water and the top of the mercury in the other arm, the specific gravity of mercury being 13·6.

13. Find the magnitude of the resultant pressure of a liquid on a solid wholly or partially immersed in it.

A body whose weight is 500 grammes and whose volume is 450 cubic centimetres is held completely immersed in a liquid of specific gravity 2 by means of a string. Find the tension of the string.

14. Define specific gravity, and show how to find it for a solid lighter than water.

A Nicholson's hydrometer can be sunk in water to the fixed mark by 25 grammes in the upper pan or by 30 grammes in the lower. Find the specific gravity of the weights.

15. Explain the action of the common pump.

Find the difference between the pressures on the upper and the lower surfaces of the piston, if it be 6 mètres above the surface of the water in the well and ·5 mètre below the spout.

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# II.—FOR THE DEGREE OF M.A.

## I. FOR ORDINARY DEGREE.

## *A.—DEPARTMENT OF LANGUAGE AND LITERATURE.*

### LATIN TRANSLATION—Two Hours.

1. Translate:—

    (*a*) Virg. *Aen.* VI. 199—211.
    (*b*) Virg. *Aen.* VI. 791—800.

Explain the references in passage (*b*).

2. Translate:—

    (*a*) Hor. *Sat.* II. 2. 118—128.
    (*b*) Hor. *Sat.* II. 6. 51—56.

Explain the allusions in passage (*b*).

3. Translate:—

    Prop. IV. 6. 37—50.

Name the speaker and the occasion.

4. Translate:—

    (*a*) Tac. *Ann.* IV. 30.

Remark on the syntax of *ibaturque in eam sententiam, ni . . . conquestus esset.*

(*b*) Translate, and explain by reference to the context:—

Traditur etiam matris impotentia extrusum, quam dominationis sociam aspernabatur neque depellere poterat, cum dominationem ipsam donum eius accepisset. Tac. *Ann.* IV. 57. 4.

5. Translate:—

*Either* (*a*) Cic. *In Verrem*, IV. 57. 126, *or* (*b*) Cic. *Ad Atticum*, III. 15. 5.

## LATIN PROSE—Two Hours.

Translate into Latin prose :—

The commissioners from Virginia acquainted the Indians that there was at Williamsburg a college for educating youth, and that, if they would send half a dozen of their young lads to that college, the Government would take care they should be well provided for, and instructed in all the learning of the white people. The Indians deferred their answer till the day following, when their speaker began by expressing their deep sense of the kindness of the Virginian Government in making them that offer. "But you, who are wise," says he, "must know that different nations have different conceptions of things, and you will therefore not take it amiss if our ideas of this kind of education happen not to be the same with yours. We have had some experience of it; several of our young people were formerly brought up at your colleges; but when they came back to us they were bad runners, unable to bear either cold or hunger, knew neither how to build a cabin, take a deer, or kill an enemy; they were totally good for nothing. We are, however, not the less obliged for your kind offer; and to show our grateful sense of it, if the gentlemen of Virginia will send us a dozen of their sons, we will instruct them in all we know, and *make men of them.*"

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## LATIN GENERAL PAPER—Two Hours.

### I. Unprepared Translation.

Tecta vero, quibus et frigorum vis pelleretur et calorum molestiae sedarentur, unde aut initio generi humano dari potuissent aut postea subvenire, si aut vi tempestatis aut terrae motu aut vetustate cecidissent, nisi communis vita ab hominibus harum rerum auxilia petere didicisset? Adde ductus aquarum, derivationes fluminum, agrorum inrigationes, moles oppositas fluctibus, portus manu factos, quae unde sine hominum opere habere possemus? Ex quibus multisque aliis perspicuum est, qui fructus quaeque utilitates ex rebus iis, quae sint inanimae, percipiantur, eas nos nullo modo sine hominum manu atque opera capere potuisse. Qui denique ex bestiis fructus aut quae commoditas, nisi homines adiuvarent, percipi posset? Nam et qui principes inveniendi fuerunt, quem ex quaque belua usum habere possemus, homines certe fuerunt, nec hoc tempore sine hominum opera aut pascere eas aut domare aut tueri aut tempestivos fructus ex iis capere possemus; ab eisdemque et, quae nocent, interficiuntur et, quae usui possunt esse, capiuntur. Quid enumerem artium multitudinem, sine quibus vita omnino nulla esse potuisset? Qui enim aegris subveniretur, quae esset oblectatio valentium, qui victus aut cultus, nisi tam multae nobis artes ministrarent?

### II. Grammar.

1. Parse and give the meanings of—*adice*, *ejūre*, *instar*, *fuerit*, *torquerier.*

2. Translate, with short notes on points of syntax :—

(*a*) Tu quoque magnam
partem opere in tanto, sineret dolor, Icare, haberes.

(*b*) Neque ille
sepositi ciceris nec longae invidit avenae.

(*c*) Non datur ad musas currere lata via.

(*d*) Fine anni excessit Asinius Agrippa, claris maioribus quam vetustis.

3. Re-arrange as an elegiac couplet:—

Erat lucus felix antro hederoso consitus, multaque arbor aquis nativis obstrepit.

### III. History and Antiquities.

1. Name the various *comitia*; explain *very briefly* how each was constituted; and describe more particularly the origin and functions of the *comitia tributa*.

2. Explain the terms:—*patronus*, *infamia*, *obnuntiatio*, *scriptura*, *senatus decretum ultimum*.

3. Discuss briefly the social, political, and economic conditions which led to the Catilinarian conspiracy.

4. Give some account of—Junonia, Sertorius, Vercingetorix, Thapsus.

## GREEK TRANSLATION—Two Hours.

1. Translate *either* (*a*) Hom. *Il.* I. 234—244.
 Explain the form and tense of εἰρύαται.
*Or* (*b*) Hom. *Od.* XIV. 473—482.
 Explain the form πεπτηῶτες and the plural ἀφραδίῃς.

2. (*a*) Translate Aristoph. *Nub.* 615—626.
 (*b*) Translate and explain Aristoph. *Nub.* 1178—1182.

3. Translate (*a*) Eur. *Herc. Fur.* 1214—1225.
 (*b*) Eur. *Herc. Fur.* 772—780.
Explain the metaphor, and correct the text if you think it necessary.

4. Translate, and explain by reference to the context:
(*a*) *Either* Thuc. IV. 106. 1.,
 *Or* Dem. *De Cor.* 195.
(*b*) Translate, with short explanatory notes:
 *Either* Thuc. IV. 98. 7.
 *Or* Dem. *De Cor.* 103.

## GREEK PROSE AND GRAMMAR—Two Hours.

### I. For Greek Prose.

"For my part," cries the prisoner, "the greatest of my apprehensions is for our freedom: if the French should conquer, what would become of English liberty? My dear friends, liberty is the Englishman's prerogative; we must preserve that at the expense of our lives; of that the French shall never deprive us. It is not to be expected that men who are slaves themselves would preserve our freedom should they happen to conquer." "Ay, slaves," cries the porter, "they are all slaves, fit only to carry burdens, every one of them. Before I would stoop to slavery may this be my poison! (and he held the goblet in his hand,) may this be my poison! but I would sooner list for a soldier." The soldier, taking the goblet from his friend with much awe, fervently cried out, "It is not so much our liberties, as our religion, that would suffer. Sink me (such was the solemnity of his adjuration,) but our religion would be utterly undone!" So saying, instead of a libation, he applied the goblet to his lips.

### II. GRAMMAR.

1. Parse fully, with meanings: [illegible], δικῶν. Remark on the forms, if necessary.

2. Translate any *four* of the following passages, with notes on idiom or syntax:

(*a*) Τὴν μὲν ἐγὼ σὺν νηΐ τ' ἐμῇ καὶ ἐμοῖς ἑτάροισι
Πέμψω, ἐγὼ δέ κ' ἄγω Βρισηΐδα καλλιπάρῃον.

(*b*) Τὸν δ' ἐς Δωδώνην φάτο βήμεναι, ὄφρα θεοῖο
Ἐκ δρυὸς ὑψικόμοιο Διὸς βουλὴν ἐπακούσῃ,
Ὅππως νοστήσει' Ἰθάκης ἐς πίονα δῆμον.

(*c*) Οἴμοι, Σώκρατες.
ὥσπερ με τὸν Ἀθάμανθ' ὅπως μὴ θύσετε.

(*d*) Ὁ δ' οὐ πείθεται, οὐδ' [illegible].

(*e*) Ἐπὶ πολὺ γὰρ [illegible] τῆς δόξης ἐν τῷ τότε [illegible] εἶναι καὶ τὰ πεζὰ κρατοῦντας, τοὺς δὲ [illegible] προύχειν.

(*f*) Εἰ μὲν οὖν τῆς [illegible] ἢ τοὺς Θετταλοὺς ἢ τοὺς Θηβαίους [illegible].

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## GREEK GENERAL PAPER—Two Hours.

### I. UNPREPARED TRANSLATION.

Ἀλλὰ Σωκράτης γε, ἔφη ὁ κατήγορος, οὐ μόνον τοὺς πατέρας, ἀλλὰ καὶ τοὺς ἄλλους συγγενεῖς ἐποίει ἐν ἀτιμίᾳ εἶναι παρὰ τοῖς ἑαυτῷ συνοῦσι, λέγων, ὡς οὔτε τοὺς κάμνοντας οὔτε τοὺς δικαζομένους οἱ συγγενεῖς ὠφελοῦσιν, ἀλλὰ τοὺς μὲν οἱ ἰατροί, τοὺς δὲ οἱ συνδικεῖν ἐπιστάμενοι. ἔφη δὲ καὶ περὶ τῶν φίλων αὐτὸν λέγειν, ὡς οὐδὲν ὄφελος εὔνους εἶναι, εἰ μὴ καὶ ὠφελεῖν δυνήσονται· μόνους δὲ φάσκειν αὐτὸν ἀξίους εἶναι τιμῆς τοὺς εἰδότας τὰ δέοντα καὶ ἑρμηνεῦσαι δυναμένους· ἀναπείθοντα οὖν τοὺς νέους αὐτόν, ὡς αὐτὸς εἴη σοφώτατός τε καὶ ἄλλους ἱκανώτατος ποιῆσαι σοφούς, οὕτω διατιθέναι τοὺς ἑαυτῷ συνόντας, ὥστε μηδαμοῦ παρ' αὐτοῖς τοὺς ἄλλους εἶναι πρὸς αὐτόν. ἐγὼ δ' αὐτὸν οἶδα μὲν καὶ περὶ πατέρων τε καὶ τῶν ἄλλων συγγενῶν καὶ περὶ φίλων ταῦτα λέγοντα· καὶ πρὸς τούτοις γε δή, ὅτι τῆς ψυχῆς ἐξελθούσης, ἐν ᾗ μόνῃ γίγνεται φρόνησις, τὸ σῶμα τοῦ οἰκειοτάτου ἀνθρώπου τὴν ταχίστην ἐξενέγκαντες ἀφανίζουσιν.

### II. HISTORY AND LITERATURE.

(Two *literary and* two *historical questions to be attempted.*)

1. Describe briefly the circumstances which led to the Peace of Philocrates.

2. Give some account of Isocrates, Eubulus, Praxiteles, Timoleon.

3. "Alexander was a Greek in the fullest sense of the word." Discuss this.

4. Contrast Euripides and Aristophanes in respect of their attitude to popular religion.

5. Describe the constitutional changes made at Athens between 431 and 403 B.C.

6. Illustrate from any one of your authors the connexion between politics and literature at Athens.

# ENGLISH LANGUAGE AND LITERATURE.

## PAPER A.—Three Hours.

### For Students of Session 1899-1900.

(*Answer* NINE *questions, taking* ONE *from* A, ONE *from* B, FIVE *from* C. *and* TWO *from* D.)

### A. Composition.

1. Is it preferable to contrast prose and poetry or prose and verse? Give full reasons for your answer.

2. "Mere sensibility is not true taste." Discuss this, and say whether or not a fixed standard of taste is possible.

3. Discuss the rhetorical quality or the figure of speech in each of the following:—

(*a*) Satan exalted sat, by merit raised
To that bad eminence.
(*b*) Straight the fierce storm involves his mind anew,
Flames through the nerves, and boils along the veins.
(*c*) I who still saw the universal sun
Heave his broad shoulder o'er the edge of the world.

### B. Philology.

4. Detail the Teutonic group of languages, and explain how the English language got its name, instead of being called West Saxon or Mercian.

5. Explain briefly why our language contains so many words of Latin descent.

6. "Modern English is the least inflected and the most composite of all languages." Discuss consequent gains and losses.

### C. Elizabethan Drama.

7. Compare the "Duchess of Malfi" and "Othello" as tragedies.

8. "Murder in ordinary cases, where the sympathy is wholly directed to the case of the murdered person, is an incident of coarse and vulgar horror; and for this reason that it flings the interest exclusively upon the natural but ignoble instinct by which we cleave to life. . . . Such an

attitude would little suit the purposes of the poet. What then must he do? He must throw the interest on the murderer. Our sympathy must be with *him*."—*De Quincey*. Discuss.

9. What mark of Shakespeare's early work do you find in the "Two Gentlemen of Verona?"

10. Compare Ben Jonson's idea of comedy with Shakespeare's, illustrating your answer from "The Alchemist" and "As You Like It."

11. Show that while "Dr. Faustus" is practically a phantasmagoria, it has great dramatic features, and mention its "two outbursts of sheer poetry."

12. "The poem has a beginning and an end which Aristotle himself could not have disapproved; but it must be allowed to want a middle, since nothing passes between the first act and the last that either hastens or delays the death of Samson." Discuss.

13. Explain the dramatic value of three of the following characters:—Edgar, Ananias, Jaques, The Porter in "Macbeth," Virgilia.

14. Compare and contrast the dramatic art of "Edward II." and "Richard II."

### D. "Golden Treasury," Books III. and IV.

15. Write short accounts of six of the following, giving the authors' names:—

(*a*) "Youth and age."
(*b*) "At the mid hour of night, when stars are weeping,
I fly."
(*c*) "Ode to Autumn."
(*d*) "Rosabelle."
(*e*) "There's not a joy the world can give."
(*f*) "Lament for Flodden."
(*g*) "Affliction of Margaret."
(*h*) "After Blenheim."
(*i*) "The Indian Serenade."

16. Write a brief account and criticism of Gray's Elegy, mentioning any changes and revisions made in it by the author.

17. What are the characteristics of Shelley's lyrics as compared with the lyrics of the Elizabethan age?

18. Contrast Gray's "Ode to Adversity" with Wordsworth's "Ode to Duty," remarking on the characteristics of both poets there exemplified.

19. Complete the following quotations:—

(*a*) What wonder if a Poet now and then
(*b*) Music, when soft voices die
(*c*) For who to dumb forgetfulness a prey
(*d*) He is gone on the mountain
(*e*) Drumossie moor, Drumossie day
(*f*) One shade the more, one ray the less
(*g*) The moving waters at their priest-like task

## PAPER B.—THREE HOURS.

### FOR STUDENTS OF SESSION 1900-1901.

(*Answer* NINE *questions, taking* ONE *from* A, ONE *from* B, FIVE *from* C, *and* TWO *from* D.)

### A. COMPOSITION.—Same as in Paper A.

### B. PHILOLOGY.—Same as in Paper A.

### C. IMAGINATIVE LITERATURE OF WORDSWORTH'S AGE.

7. Give brief accounts of *six* of the following, with the authors' names: (*a*) Ruth, (*b*) To Jane (the keen stars), (*c*) Darkness, (*d*) In a drear-nighted December, (*e*) The Question, (*f*) The Maid of Neidpath, (*g*) Youth and Age, (*h*) Dion, (*i*) So, we'll go no more a-roving, (*j*) A Poet's Epitaph.

8. Enumerate and very briefly characterise important origins of the Romantic Revival.

9. "The most enduring creations of the Romantic School are the works of Sir Walter Scott, who adhered most tenaciously to the social common sense and the inherited life of his nation, and kept the firmest check upon the caprices of his own individual genius." Discuss.

10. Elaborate Shelley's remark that "Keats was Greek."

11. "If Byron is beneath many of his contemporaries in depicting the past, he is superior to any in depicting the present." Discuss.

12. Write notes on *two* of the following: (*a*) Coleridge's early poetry, (*b*) the Beppo stanza, (*c*) Keats's picture-painting in *Lamia*, *Eve of St. Agnes*, the *Odes*, (*d*) the hymns in *Prometheus Unbound*, (*e*) Scott's *Lyrics*.

13. Trace the growth of literary criticism at the beginning of the nineteenth century.

14. Give a critical account of *two* of the following: *Hyperion*, *Kubla Khan*, *Adonais*, *The Happy Warrior*.

### D. "TEMPEST" AND "GULLIVER'S TRAVELS."

15. Define the dramatic unities, and say to what extent they are observed or neglected in *The Tempest*.

16. Is *The Tempest* allegorical or merely a romantic drama? Discuss fully.

17. Emend if necessary, and explain with reference to the context:—

(*a*) Who having into truth, by telling of it,
Made such a synner of his memorie
To credit his own lie.
(*b*) Come forth I say, there's other business for thee:
Come thou tortoise, when?
(*c*) Thou calldst me up at midnight to fetch dew
From the still-vext Bermoothes.

(*d*) I forget :
But these sweet thoughts do even refresh my labours
Most busie lest, when I doe it.
(*e*) My bankes with pioned and twilled brims.
(*f*) Leave not a racke behind.

18. Wherein is Swift's satire particular and wherein general?

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## FRENCH LANGUAGE AND LITERATURE.

### FIRST PAPER—THREE HOURS.

1. Traduire en Anglais :—

A UNE JEUNE FILLE.

Vous qui ne savez pas combien l'enfance est belle,
Enfant ! n'enviez point notre âge de douleurs,
Où le cœur tour à tour est esclave et rebelle,
Où le rire est souvent plus triste que vos pleurs.

Votre âge insouciant est si doux qu'on l'oublie !
Il passe comme un souffle au vaste champ des airs,
Comme une voix joyeuse en fuyant affaiblie,
Comme un alcyon sur les mers.

Oh ! ne vous hâtez point de mûrir vos pensées !
Jouissez du matin, jouissez du printemps ;
Vos heures sont des fleurs l'une à l'autre enlacées ;
Ne les effeuillez pas plus vite que le temps.

Laissez venir les ans ! Le destin vous dévoue,
Comme nous, aux regrets, à la fausse amitié,
A ces maux sans espoir que l'orgueil désavoue,
A ces plaisirs qui font pitié !

Riez pourtant ! du sort ignorez la puissance ;
Riez ! n'attristez pas votre front gracieux,
Votre œil d'azur, miroir de paix et d'innocence,
Qui révèle votre âme et réfléchit les cieux !

VICTOR HUGO (*Odes et Ballades*).

2. Translate into French :

Tennyson celebrates love in six delightful and happy songs, inserted in the third edition between the main divisions of the poem (*The Princess*). They were, he says, ballads or songs to give the poets breathing space. So,

The women sang
Between the rougher voices of the men,
Like linnets in the pauses of the wind.

They are all of a sweet and gentle humanity, of a fascinating and concentrated brevity, of common moods of human love made by the poet's sympathy and art to shine like the common stars we love so well. The falling out of wife and husband reconciled over the grave of their child, the mother singing to her babe of his father coming home from sea, the warrior in battle thinking of his home, the iron grief of the soldier's wife melted at last into tears by his child laid upon her knee, the maiden yielding at last to love she had kept at bay—these are the simple subjects of these songs. They please this large poet, he was at home in them, and as long as human nature lasts they will please the world, because they will endear love to the world.—STOPFORD BROOKE (*Tennyson: His Art and Relation to Modern Life*).

3. Translate into French :—

SONG.

Blow, blow, thou winter wind,
Thou art not so unkind
As man's ingratitude ;
Thy tooth is not so keen,
Because thou art not seen,
Although thy breath be rude.
Heigh, ho ! sing, heigh, ho ! unto the green holly :
Most friendship is feigning, most loving mere folly.
Then, heigh, ho ! the holly !
This life is most jolly.

SHAKESPEARE (*As You Like It*, II. 7).

## SECOND PAPER—THREE HOURS.

## GRAMMAR.

(*Answer* ONE *question only of Group A, and* TWO *questions only of Group B.* N.B.—*Question* 1 *of Group B is compulsory.*)

### *Group A.*

1. Origin and formation of the French Vocabulary.

2. Explain the internal and external development of the French tongue during the Middle-French Period (XIV<sup>th</sup> to XVI<sup>th</sup> centuries).

### *Group B.*

1. (**Compulsory**). Scan the following lines, indicate the place of the cæsura in every line, and give an appreciation of the rhymes :—

Tu t'en souviens, Cinna : tant d'heur et tant de gloire
Ne peuvent pas sitôt sortir de ta mémoire ;
Mais ce qu'on ne pourroit jamais s'imaginer,
Cinna, tu t'en souviens, et veux m'assassiner.

CINNA.

Moi, Seigneur ! moi, que j'eusse une âme si traîtresse :
Qu'un si lâche dessein. . . .

AUGUSTE.

Tu tiens mal ta promesse :
Sieds-toi, je n'ai pas dit encor ce que je veux ;
Tu te justifieras après, si tu le peux :
Ecoute cependant, et tiens mieux ta parole.—(*Cinna*, V. 1.)

2. A grammatical commentary on the text of Corneille just mentioned above.

3. Transitive and intransitive verbs in French and in English,—a comparative study.

4. Explain the use of the neuter pronoun *ce* (*ceci*, *cela*).

### LITERATURE—COMPOSITION FRANÇAISE.

Traiter L'UN des sujets suivants :—

(*a*) Le sentiment du devoir chez les héros de Corneille et chez ceux de Racine : quel est, en particulier, chez les deux poètes, le fondement de ce sentiment. Les rapports du devoir et de la passion sont-ils les mêmes dans les théâtres de ces deux auteurs ? (Comparer, surtout, Rodrique et Chimène à Tite et Bérénice.)

(*b*) Exposer ce que "Le Cid" (1636) et "Andromaque" (1667) apportaient de nouveau au théâtre français.

(*c*) Imaginer un dialogue entre Corneille et Racine sur l'importance de *l'action* dans la tragédie. Tous deux appuient les opinions qu'ils expriment pas des exemples pris dans leurs œuvres.

N.B.—*Les Candidats sont priés de vouloir bien se rendre Mercredi 10 avril, à 9 heures précises du matin, dans* THE CONVEYANCING CLASS-ROOM, *où aura lieu l'examen oral.*

## GERMAN LANGUAGE AND LITERATURE.

### FIRST PAPER.—THREE HOURS.

I. Translate into German *two* of the following pieces, of which (*a*) must be one.

(*a*) The man who first saw that it was possible to found a European empire on the ruins of the Mogul monarchy was Dupleix. His restless, capacious, and inventive mind had formed this scheme at a time when the ablest servants of the English Company were busied only about invoices and bills of lading. Nor had he only proposed to himself the end. He had also a just and distinct view of the means by which it was to be attained. MACAULAY.

(*b*) *Sir Peter.* Ladies, your most obedient—[Aside]. Mercy on me, here is the whole set! A character dead at every word, I suppose.

*Mrs. Candour.* I am rejoiced you are come, Sir Peter. They have been so censorious—and Lady Teazle as bad as anyone.

*Sir Peter.* That must be very distressing to you, indeed, Mrs. Candour.

*Mrs. Candour.* Oh, they will allow good qualities to nobody ; not even good nature to our friend, Mrs. Pursy.

*Lady Teazle.* What, the dowager who was at Mrs. Quadrille's last night. SHERIDAN.

(*c*) The path which led upwards from the water's edge to the top of the bank was extremely narrow and difficult. Bruce caused his men to lie down to take some sleep at a place about half a mile distant from the river, while he himself with two attendants, went down to watch the ford, through which the enemy must needs pass before they could come to the place where King Robert's men were lying. SCOTT.

II. Write a short essay in German on one of the following subjects:

1. *Nutzen und Genusz des Reisens.*
2. *Der Handel als Träger der Kultur.*

## GRAMMAR AND PHILOLOGY.

(*Answer* EIGHT *of the following questions.*)

### III.

1. State the rules with regard to the accent both in the case of pure German words and words of foreign extraction.

2. (*a*) Mark the *tonic accent* in the following words: *Durchkreuzung, durchtrieben, vollends, Semester, Altar, Ubergebung, Durchweg, durchweg, unterwegs, Genius, Genie, genial, Character, Ungeheuer, ungeheuer.*

(*b*) What is the length of the vowels in the following words: *Araber, Art, Krebs, Post, Buch, hoch, Hochzeit, Trost, Rost, Macht, Magd, flosz, Flosz, flucht, Flucht, Serie, Sprache, Energie, Drache, Furie.*

3. What gender do Latin nouns in *are, arium,* become in German? Give examples.

4. Explain historically the gender of: *Hornung, Petschaft, Pein, Antwort, Kloster, Schrift, Armut, Kerker, Pacht, Orgel.*

5. Give the rules concerning the use of the subjunctive in principal and subordinate clauses. Form German sentences in application of the rules.

6. Write etymological notes on: *Aue, Messe, Rappe, ächzen, dutzen, Raugraf, Vogt, Halm, Haft, Teig, zischeln, Trutz, Knappe, Hoffart.*

7. Comment on the syntax of the cases in the following sentences, which should not be translated:

Hier ist *meines Bleibens* nicht. Ich bin *es* zufrieden. Sie sind *dir* gar lockere leichte Gesellen. Schon *den Hals* entblösst, kniet ich auf meinem Mantel. Noch *diese Nacht* musz er die Stadt verlassen.

8. Show by examples what change the suffix *t* effects on the preceding consonant.

9. What do you know of the origin of the German literary language?

10. State concisely the difference between High German and Low German, and indicate the geographical boundary between them.

## SECOND PAPER.—THREE HOURS.

**A. Translate into English :—**

1. Und jenen Geiſt, der aus verſchwiegnen Quellen
Durch alles Sein ſich ſchöpferiſch ergießt,
Durch den Geſtalt und Leben ſich geſellen
Und todtem Wort ein blüh'ndes Bild entſprießt,
Ihn, der ſo hold aus Wolken und aus Wellen,
Aus Wieſ' und Wald mit leiſem Ton uns grüßt,
Sein Walten kann, wie einſt in ſchönern Zeiten,
Noch ein Mal jetzt mein Sinn verſtehn und deuten.

SCHLEGEL.

2. Hermann konnte bald an den Verhandlungen ſehen, daß hier keine Geſchäftsführung im gewöhnlichen Sinne ſtattfinde. Nicht *ein* Herr mit verſchiedenen, nur die Ausführung beſorgenden Dienern war vorhanden, ſondern ein jeder Geſchäftszweig hatte ſeinen unabhängigen Vorſtand, welcher innerhalb deſſelben frei nach eigenem Ermeſſen verwaltete. So trat in der Verſammlung ein Director der Glasfabrik, der Bergwerke, der Brau- und Brennerei, der Webſtühle, der Porzellanmanufactur hervor, und noch manche andere Fabrikſtätten wären zu nennen. Dieſe Vorſtände berichteten dem Oheim die Reſultate ihrer Thätigkeit in der verfloſſenen Woche.

IMMERMANN.

3. (*a*) Dagegen ſagte ihm ein ebenſo vortreffliches Gefühl: daß wenn der ganze Vorfall, wie es allen Anſchein habe, bloß abgekartert ſein ſollte, er mit ſeinen Kräften der Welt in der Pflicht verfallen ſei, ſich Genugthuung für die erlittene Kränkung und Sicherheit für zukünftige ſeinen Mitbürgern zu verſchaffen.

(*b*) Der Kurfürſt von Brandenburg, dem in dieſer Angabe mancherlei zweideutig und unklar ſchien, antwortete ihm: „daß der Nachdruck, mit welchem der Anwalt kaiſerlicher Majeſtät verführe, platterdings nicht erlaube, dem Wunſch, den er ihm geäußert, gemäß, von der ſtrengen Vorſchrift der Geſetze abzuweichen. Er bemerkte, daß die ihm vorgelegte Beſorgnis in der That zu weit ginge, indem die Beſchwerde wegen der dem Kohlhaas in der Amneſtie verziehenen Verbrechen ja nicht von ihm, der demſelben die Amneſtie erteilt, ſondern von dem Reichsoberhaupt, das daran auf keine Weiſe gebunden ſei, bei dem Kammergericht zu Berlin anhängig gemacht worden wäre.

*Michael Kohlhaas.*

B. Comment on the following passages and write notes on the words underlined. Do not translate.

(*a*) Auf! Daß die Peſt mich!
Ein edler Sohn, für euren Dienſt, jedwedem,
Der euch, wenn ihr zerfallt, ein gleiches thut!
Ja, auf dem Roß fühl' ich voll Jugend mich;
Doch ſitz' ich ab, da hebt ein Strauß ſich an.

(*b*) Ihr geht auf Kalkhuhns, meines Kanzlers, Schloß
Bei Havelberg.

(*c*) Weil hier Parol' noch ſoll empfangen werden.

(*d*) Wenn ich der Dei von Tunis wäre
Schlüg' ich bei ſo zweideut'gem Vorfall Lärm;
Die ſeidne Schnur legt' ich auf meinen Tiſch,
Und vor das Thor, verrammt mit Palliſaden,
Führt' ich Kanonen und Haubitzen auf.

(*e*) Ruf' ihn beim Namen auf, ſo fällt er nieder.

(*f*) Ins Nichts! Herr Prinz von Homburg.

(*g*) Biſt des Teufels du?

(*h*) So wahr ich Leben atme.

(*i*) Was iſt die Glocke jetzo?

KLEIST.

C. Translate :—

Das deutſche Volk hat die großen, geiſtigen Bewegungen, welche den Uebergang aus dem Mittelalter in die neue Zeit begleiteten, am gründlichſten durchgemacht. Da aber im ſechzehnten Jahrhundert neben den Quellen der alten Bildung auch die der chriſtlichen Religion wieder bekannt wurden, wandten ſich die Deutſchen dieſer Entdeckung mit ſolcher Begeiſterung zu, daß ſie ſchon deshalb dem Einfluſſe der griechiſch-römiſchen Bildung nicht ungeteilt und einſeitig huldigen konnten. Vielmehr wurden auch die neuen Hülfsmittel, welche die klaſſiſchen Studien darboten, den kirchlichen Intereſſen dienſtbar, und die Philologie hat der Theologie getreulich beigeſtanden, um die religiöſe und wiſſenſchaftliche Selbſtändigkeit der Deutſchen wieder herzuſtellen. Sie ſind zuſammen ſtark geworden, aber auch die Erſchöpfung, welche folgte, traf beide gemeinſam. Die Theologie entartete zu trockenem Dogmatiſmus, und die Humaniſten waren ſo wenig im Stande, die Gegenwart in lebendiger und heilſamer Gemeinſchaft mit dem klaſſiſchen Alterthum zu erhalten, daß die deutſche Litteratur zu unwürdiger Nachahmung ausländiſcher Muſter herabſank und ſich unter das Joch von Regeln beugte, welche aus mißverſtandenen Kunſtlehren der Alten abgeleitet waren.

CURTIUS.

D. Give an idiomatic rendering of the following sentences:—

Flauſen machen; eine Klage anhängig machen; er ließ es an nichts fehlen; in den Bart murmeln; geſtrenger Herr; aufgeſeſſen!; Handel und Wandel; es iſt mir nicht darum zu thun; es liegt an Ihnen; ein deutſches Herz von altem Schrot und Korn; das läßt ſich hören; was ſoll das; Groll hegen.

E. LITERATURE. *Answer* SEVEN *of the following*:—

1. Herder has been called the father, Novalis the prophet, the brothers Schlegel the real founders of the Romantic School. Criticise this.

2. Give the primary causes of the dissension between the two great literary schools at the end of the eighteenth century.

3. Show the importance of *Heinrich von Ofterdingen* in the early development of Romanticism.

4. Through what different phases of literary evolution did Tieck pass?

5. In one respect Kleist is the greatest of all the Romanticists. Justify this statement.

6. Sketch the plot of the *Prinz von Homburg.* What was Kleist's object in writing it?

7. What was the so-called *fate* tragedy? Point out its effect on the School.

8. The political misfortunes of Prussia at the beginning of the nineteenth century exercised considerable influence on German literature. How did it affect the Romantic movement?

9. State concisely the aims of the early Romanticists.

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## *B.—DEPARTMENT OF MENTAL PHILOSOPHY.*

### LOGIC—Three Hours.

(Ten *questions to be taken.*)

1. Define Formal Logic, explaining and illustrating the general distinction between *matter* and *form.* Would you say that Formal Logic is concerned with *Things*? or Thoughts? or Words?

2. (*a*) What are the kinds of opposition? Can a singular proposition have a contrary as distinct from a contradictory?

(*b*) Give, where possible, the converse and the contrapositive of each of the following:—

(i) Only fools learn by experience.
(ii) It is an ill wind that blows nobody any good.
(iii) Some laws arise from custom.

3. (*a*) Explain the *Dictum de omni et nullo* and show how it provides the general conditions of validity in categorical syllogism.

(*b*) Put in logical form and examine the following arguments:—

(i) He need not fear madness, for he has no learning, and learning makes a man mad.
(ii) Wherever ideas have become indissolubly associated, it is beyond our power to represent them separately; our attitude is that of belief. Belief then may be defined as the consequence of an indissoluble association of ideas.
(iii) He must be a Liberal, for all Liberals hold these opinions.

4. (*a*) In what Figure is there no weakened conclusion? Why?

(*b*) Prove, by reference to general rules, that no syllogism in Fig. IV. can be valid, which has an O proposition as one of its premisses or an A proposition as its conclusion?

(*c*) Prove that when the minor term is predicate in its premiss, the conclusion cannot be A.

5. Explain fully the following terms: (i) *Inductio per enumerationem simplicem*; (ii) Fallacies of Observation; (iii) Empirical Law; (iv) Method of Difference; (v) False Analogy; (vi) Natural Classification.

6. Expand and discuss the statements: (i) All explanation is generalisation; (ii) all explanation is simplification.

7. Explain generally the point of view from which mind is treated in Psychology. Distinguish it from that taken (*a*) in Logic, (*b*) in Metaphysics.

8. Write a brief explanatory note on each of the following terms:—(i) sub-consciousness; (ii) extensity of sense presentations; (iii) retentiveness; (iv) assimilation; (v) association.

9. What is the relation of Attention to consciousness? Illustrate the varieties of Attention.

10. What psychological grounds are there for the distinction drawn by some philosophers between Sensation and Perception?

11. Do you think the space perception can be developed from sensations of movement alone? What do you say of Berkeley's view that visible and tangible space are heterogeneous?

12. What are 'generic' images? How do they arise? In what relation do they seem to stand to Notions or Concepts?

13. How do we come to distinguish a presentation from its revived image? Trace the development of the complete discrimination between the perception of a real object and the representative idea.

14. How does Locke explain the grounds and nature of our knowledge of a material universe? What is Berkeley's criticism of the explanation?

15. What principle is involved in Berkeley's rejection of abstract general ideas? How does he account for generality in Reasoning?

16. How far do you think it correct to say that Berkeley's theory of Knowledge combines the principles of Empiricism and Rationalism?

17. In what points does the Platonic theory show the influence (*a*) of the Eleatics, (*b*) of Heraclitus, (*c*) of the Pythagoreans, (*d*) of Anaxagoras?

18. What is Plato's distinction between Opinion and Knowledge? Explain generally the significance of the term *idea* in his philosophy.

19. Explain what is meant by the Cartesian Doubt. What is Descartes' ultimate certainity, and what in his view is the *test* of certainity?

20. Give Descartes' analysis of what we mean when we say that we perceive a piece of wax. Does Descartes distinguish perception from sensation?

21. Show how the Cartesian arguments for the existence of God are inter-connected.

22. Define the uses of the term idea in Descartes, Locke, Berkeley and Hume.

## MORAL PHILOSOPHY—THREE HOURS.

(*All candidates for the degree are required to answer not less than* TWO *nor more than* THREE *questions in Section* A, *and not less than* SIX *nor more than* SEVEN *in Section* B.)

### SECTION A.

1. What does Plato mean by the Idea of Good?
2. Interpret the parable of the Cave.

3. What are the forms through which the State passes in the process of degeneration? How does Timocracy arise?

4. Explain what Plato means by Dialectic.

5. Indicate Plato's views on the moral aspect of poetry.

### SECTION B.

1. Discuss the possibility of a philosophy of conduct.

2. "Man's relation to his natural environment, so far from negating his freedom, makes it possible." Explain this statement and show that its truth depends upon the way in which that relation is understood.

3. 'Virtue is Knowledge.' What precisely did Socrates mean by this, and how far is it true?

4. "Do unto others as ye would that they should do to you." "Act so that thou canst will that thy maxim should become universal law." Examine these maxims of conduct.

5. "Virtue is a mean": "Virtuous conduct comes through the equilibration of the passions." Compare and criticise these two views.

6. What are the main defects of the Intuitional Method in Morals? Refer more particularly to the views of Dr. Martineau.

7. State and discuss Aristotle's view of Happiness.

8. What is the function of Reason in the moral life, according to the doctrines of the Stoics and Kant?

9. Can you justify the statement that Morality is *neither* and *both* self-denial and self-realization?

10. Explain carefully the meaning of the idea of 'Organism,' and indicate briefly its bearing on ethical theory.

## POLITICAL ECONOMY—THREE HOURS.

(*Only* EIGHT *questions to be attempted*: FIVE *from Section I., and* THREE *from Section II.*)

### SECTION I.

1. Define very briefly the following terms:—Consumers' surplus; Utility; Quasi-rent; Standard for deferred payments; Elasticity; Gross interest; Land; Accumulated outlays.

2. State briefly what you know about money—its forms, functions, and relation to the value of goods.

3. Is "a man's capital" defined by his income, or his income by his capital? Give reasons for your answer.

4. Compare Co-operative Stores with Limited Liability Companies.

5. Show how and in what various proportions fixed charges enter into the price of goods.

6. What is the principle of substitution, and what does it do in determining the remuneration of the various factors?

7. "Demand and supply govern the value of all things which cannot be indefinitely increased. But in all things which admit of indefinite multiplication, demand and supply only determine the perturbations of value during a period which cannot exceed the length of time necessary for altering the supply. While thus ruling the oscillations of value, they themselves obey a superior force which makes value gravitate toward cost of production."—(*Mill.*) Criticise this statement of the overruling of demand and supply by cost of production.

8. Is the price of Coal determined on the same principles as the price of colliers' labour?

9. Show the connection between Expenses of Production and Real Cost of Production.

10. What place does Mobility play in the distribution of income?

11. What is the place of Malthus (1) in general economic theory, (2) in modern practical problems?

12. What does Marshall mean by the irregular boundary line defining the margin of profitableness?

### SECTION II.

13. "The more fully the distinctively English features of land tenure are developed, the more nearly is it true that the line of division between the tenant's and the landlord's share coincides with the deepest and most important line of cleavage in economic theory."—(*Marshall.*) Explain.

14. What is the Fixed Work Fund fallacy? Can you mention any practices of Trade Unionism apparently based on it?

15. Compare a collier and a clergyman in regard to Nominal and Real Wages.

16. What are some of the effects which may be regarded as compensating for the injuries that some forms of Trade Union action inflict on production?

17. Is it a proof of Great Britain's prosperity that her imports greatly exceed her exports, or a proof of the prosperity of the United States that her exports greatly exceed her imports?

18. Give the standard arguments for Free Trade; *or*, the standard arguments for Protection.

19. Can you suggest any reasons why some English economists do not desire to see universal Free Trade, and why some foreign economists declare for Protection?

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## EDUCATION.

### FIRST PAPER—THREE HOURS.

1. Explain and discuss the place of Music in Hellenic Systems of Education.

2. Relate Aristotle's Educational System to his theory of the State.

3. Give the substance of Locke's teaching as to (*a*) Sauntering, (*b*) Reasoning with Children, (*c*) Breeding, (*d*) Learning to read, (*e*) Learning by heart.

4. Contrast the views of Locke and Mr. Herbert Spencer with regard to Physical Education.

5. Estimate the Natural Reactions Theory of punishment as presented by Rousseau and Spencer.

6. Expound the Herbartian theory of the formation of Apperception Masses, and note educational applications.

7. Give, with a running commentary, Rousseau's views on the teaching of Drawing and of Geography.

8. Explain the following, giving the Context in each case :—

(*a*) From Rousseau's *Emile*.
  (1) The happiest treatise on Natural Education.
  (2) Present interest is the grand motive power.
  (3) I am preaching to you a difficult art.

(*b*) From Spencer's *Education*.
  (1) The natural history of Society.
  (2) The leisure part of Education.
  (3) Do not expect from a child any great amount of moral goodness.

## SECOND PAPER—Three Hours.

1. Explain exactly the nature of Habit ; and let your answer bring out the meaning of (*a*) instinct, (*b*) plasticity, (*c*) impulse, (*d*) accommodation.

2. Explain *briefly* the following terms (*a*) the *free* arts, (*b*) the strongest motive, (*c*) the socius, (*d*) the quadrivium, (*e*) continuum, (*f*) Chantry Schools.

3. Describe the general nature of fatigue, and indicate the relation between the practice effect and the fatigue effect in mental work. From our knowledge of fatigue, what conclusions may we draw for our guidance in the work of teaching?

4. Give an account of the three stages in the systematic development of the content of the mind.

5. Show the importance of the distinction between retaining and recalling as functions of Memory. Mark off the sphere of memory from that of imagination in the ordinary work of reproducing past experiences.

6. Distinguish between (*a*) correlation and co-ordination in the development of the child's powers, (*b*) convergent and divergent association, (c) spontaneous and voluntary attention.

7. What are the essentials of the Socratic Method? To which subjects may it be best applied in school? What limitations are necessary in order that it may be successfully used with children?

8. The place of Imitation as a motor influence in Education ; *or* the Influence of the idea of Development on Educational Theory.

## *C.—DEPARTMENT OF SCIENCE.*

# MATHEMATICS.

### FIRST PAPER.—Three Hours.

1. The straight line joining the middle points of any two sides of a triangle is parallel to the third side and equal to the half of it.

$C$ is any point on a given straight line $AB$. $ADC$, $CEB$ are equilateral triangles on the same side of $AB$; show that for different positions of $C$ the locus of the middle point of $DE$ is a straight line parallel to $AB$.

2. Construct a square equal in area to a given rectilineal figure.

Construct a rectangle whose area shall be equal to that of a given square and whose diagonal shall be equal to a given straight line.

3. Prove that the opposite angles of a quadrilateral inscribed in a circle are supplementary, and conversely.

$A$, $B$, $C$, $D$, $E$ are five points taken in order on the circumference of a circle. If $P$ be a point on $AD$ produced such that the angles $ACD$ and $PCD$ are equal, show that the angle at $P$ equals the difference between the angles in the segments $ABC$ and $AED$.

4. Draw a tangent to a circle from a given point outside it.

$AH$ is a tangent at $A$ to a circle whose centre is $O$, $HKL$ is any chord, $KQ$ is drawn perpendicular to $HK$ meeting the circle again in $Q$ and $OA$ in $R$; show that $AQ$ is parallel to $HR$.

5. Describe an isosceles triangle having each of the angles at the base double of the third angle.

If $ABC$ be such a triangle, $AB$ being equal to $AC$, and $CE$ be drawn perpendicular to $AB$, show that

$$4CE^2 = AB^2 + BC^2.$$

6. If two triangles be mutually equiangular they shall be similar.

$ABC$ is a triangle right angled at $A$ and $AB$ equals $2AC$; $CE$ the bisector of the angle $C$ meets $AB$ in $E$; with $E$ as centre and $EA$ as radius a circle is described cutting $AB$ in $H$. Prove that $BC$ is a tangent to this circle and that $AB$ is divided at $H$ in extreme and mean ratio.

7. Prove that the rectangle contained by the diagonals of a quadrilateral inscribed in a circle is equal to the sum of the two rectangles contained by its opposite sides.

Prove also the Converse of this Theorem.

8. Define a Harmonic Range.

If $A$, $B$, $C$, $D$ form a harmonic range and $O$ be the middle point of $AC$, show that

$$OC^2 = OB \cdot OD.$$

$AB$ is the chord of a circle whose centre is $C$. $AP$, $BP$ are drawn to any point $P$ on the circumference and cut the diameter perpendicular to $AB$ in $M$ and $N$ respectively; show that

the rectangle $CM \cdot CN$ = the square on the radius.

9. Define the Centres of Similitude of two circles.

Show that if a line be drawn through a centre of similitude to cut both circles, the radii to corresponding points are parallel.

Prove that the tangents to two circles drawn from any point on the circumference of their Circle of Similitude are proportional to their radii.

10. $AB$, $CD$ are two non-intersecting straight lines; show how to draw a plane through $CD$ parallel to $AB$.

Show that the length of the perpendicular drawn from any point of $AB$ to this plane equals the shortest distance between $AB$ and $CD$; hence show that the shortest distance between the diagonal of a cube and an edge which does not meet it is half the diagonal of one of the faces.

11. Find the angle between the two straight lines whose quotations are

$$ax + by + c = 0, \quad a'x + b'y + c' = 0;$$

state the conditions that the lines be (i) parallel, (ii) perpendicular.

Draw the straight lines whose quotations are

$$3x - 4y + 5 = 0, \quad x + 5y + 8 = 0, \quad 4x + y - 6 = 0;$$

find the coordinates of any one of the vertices of the triangle which they form, and the equation of a line drawn through this vertex perpendicular to the opposite side.

12. Prove that the equation

$$x^2 + y^2 + 2gx + 2fy + c = 0$$

represents a circle.

Find the centre and radius of the circle given by the equation

$$x^2 + y^2 - 4x + 3 = 0,$$

and show that the equations of the tangents drawn to it from the point (0, 1) are

$$y = 1 \text{ and } 3y + 4x = 3.$$

## SECOND PAPER—Three Hours.

1. Prove that

$$(x + y + z)(-x + y + z)(x - y + z)(x + y - z) \\ = 2y^2z^2 + 2z^2x^2 + 2x^2y^2 - x^4 - y^4 - z^4.$$

Eliminate $x$ from the equations

$$ax + by + cz = 0,$$
$$yz + zx + xy = 0;$$

and show that the resulting equation in $\frac{y}{z}$ will have equal roots if

$$\sqrt{a} \pm \sqrt{b} \pm \sqrt{c} = 0.$$

2. Prove that the expression $ax^2 + bx + c$ has the same sign as $a$ whatever real value $x$ may have, except when the roots of $ax^2 + bx + c = 0$ are real and different and $x$ lies between them.

Show that whatever real value $x$ may have, the value of the fraction

$$\frac{(x + \frac{1}{2})(x + 2)}{(x - \frac{1}{2})(x - 2)}$$

never lies between $-\frac{1}{9}$ and $-9$.

3. Solve the equations :—

(i) [illegible] $= 2$;

(ii) $x(x - 7) + \frac{1}{x}\left(\frac{1}{x} - 7\right) + 12 = 0$;

(iii) $x(1 + x) + y(1 + y)$,
$4x + y = (x + y)^2$.

4. Find a factor which will rationalise $\sqrt{x} + \sqrt{y}$.

Show that

$$\frac{5\sqrt{2}}{\sqrt{5} + \sqrt{10}} - \frac{8\sqrt{5}}{\sqrt{2} + \sqrt{10}} + \frac{3\sqrt{10}}{\sqrt{2} + \sqrt{5}} = 0.$$

5. Find the sum of the first $n$ terms of the series

$$a,\ ar,\ ar^2,\ ar^3,\ \dots$$

and find the condition that this sum should have a finite and definite limit when $n$ becomes very great.

(i) Sum the series $2 - 3 + \frac{9}{2} - \dots$ to $n$ terms.

(ii) Show that

$$1 + 3x + 7x^2 + 15x^3 + \dots \text{ to infinity} = \frac{1}{(1 - x)(1 - 2x)},$$

if $x < \frac{1}{2}$.

6. Write down the $(r + 1)$th term of the expansion of $(x + a)^n$ and find its ratio to the $r$th term.

Find the term containing $x^7$ in the expansion of $\left(x^2 - \frac{1}{x}\right)^{[illegible]}$.

Show that this term will be the greatest term of the series if $x$ have any value between [illegible] and [illegible], and that if $x$ have either of these two values there will be two greatest terms one of which will be the term containing $x^7$.

7. Expand $(1 + x)^n$, writing the coefficients in the form suitable for the case in which $n$ is not a positive integer, and prove that the series is convergent if $x < 1$.

Show how to expand $(x + a)^n$, $n$ not a positive integer,

(i) when $x < a$, (ii) when $x > a$.

Find to five places of decimals the cube root of 997.

8. Define the logarithm of a number to a given base.

Show that

$$\log_a N = \log_b N \times \log_a b$$
$$= \log_b N \div \log_b a.$$

If $a^2 + b^2 = 6ab$, prove that

$$\log \frac{a + b}{2} = \frac{1}{3}\{\log a + \log b + \log (a + b)\}.$$

**9. Define a radian.**

If $s$ be the arc which an angle subtends at the centre of a circle whose radius is $r$, show that the measure of the angle in radians is $\frac{s}{r}$.

If an arc of length of 10 feet, on a circle whose radius is 4 feet subtend at the centre an angle of 143° 14′ 22″, find the value of $\pi$ to 4 places of decimals.

10. Prove geometrically, or otherwise, that

$$\tan 2A = \frac{2\tan A}{1-\tan^2 A},$$

assuming the angle $A$ to be acute.

Trace the changes in the magnitude and sign of $\cot x - \tan x$ as $x$ goes from 0 to $\pi$.

11. Establish the following identities:—

(i) $(\cot A + 2)(2\cot A + 1) = 2\operatorname{cosec}^2 A + 5\cot A$ ;

(ii) $\sin\frac{A}{2}\cos\frac{3A}{2} - \sin\frac{5A}{2}\cos\frac{7A}{2} = -\sin 2A\cos 4A$ ;

(iii) $\sin 3A\sin^3 A + \cos 3A\cos^3 A = \cos^3 2A$.

12. Find expressions for the length of the radii of the inscribed and escribed circles of a triangle in terms of the lengths of the sides.

If $r$ be the radius of the inscribed circle and $\alpha$, $\beta$, $\gamma$ the distances of its centre from the vertices of the triangle, prove that

$$r = a\frac{\sin\frac{B}{2}\sin\frac{C}{2}}{\cos\frac{A}{2}},$$

and that

$$\frac{r}{s} = \frac{\alpha\beta\gamma}{abc}.$$

13. Prove that the lengths of the sides of a triangle are proportional to the sines of the opposite angles.

In the triangle $ABC$, the length of $AB$ is 100 feet, the angles $A$ and $B$ are 35° 17′ and 123° 18′ respectively; find the length of the perpendicular drawn from $C$ to $AB$.

## NATURAL PHILOSOPHY.

### FIRST PAPER—Three Hours.

(*Not more than* TEN *questions to be attempted.*)

1. Define *acceleration*.

Prove that if a point be moving with uniform acceleration, the distances which it passes over in successive seconds form a series in Arithmetical Progression.

The velocity of a point moving with uniform acceleration increases from 5 to 6 feet per second as it passes over 22 feet. What is the velocity of the point when it is half way? What is its velocity when half the time has elapsed?

2. Define *angular velocity*; state how it is measured (i) when uniform, (ii) when variable.

A hoop, radius $r$, rolls uniformly along a plane without slipping, its centre describing a straight line with velocity $v$. Find the velocity at any instant of any point of the hoop and show that its angular velocity about the point in contact with the plane is $\frac{v}{r}$.

What is the magnitude and direction of the acceleration of the point in contact with the plane?

3. A body is projected in a vertical plane with velocity $V$ in a direction making an angle $\alpha$ with the horizontal; if $x$ be the horizontal distance of the body from the point of projection at any instant, and $y$ its vertical distance, measured upwards, show that

$$y = x \tan \alpha - \frac{g}{2V^2 \cos^2 \alpha} x^2.$$

A stone thrown from the top of a tower 250 feet high, strikes the ground after an interval of 5 seconds at a distance of 300 feet from the foot of the tower; find the velocity and direction of projection.

4. Two unequal masses are connected by a light string which passes over a smooth fixed pulley; find the acceleration of the system and the stretching force in the string.

A string passing over a smooth fixed pulley is attached at one end to a mass $m_1$ and at the other to a smooth pulley whose mass may be neglected; a second string passes over this pulley and is attached at one end to the ground and at the other to a mass $m_2$; all the hanging portions of string are vertical. Show that if $m_2$ be greater than $\frac{m_1}{2}$, $m_1$ will ascend and prove that its acceleration will be

$$\frac{2m_2 - m_1}{4m_2 + m_1} g.$$

5. Prove that the time of a small oscillation of a simple pendulum whose length is $l$ is

$$2\pi \sqrt{\frac{l}{g}}.$$

A pendulum which beats seconds at sea level loses one second per hour when it is taken to the summit of a mountain; find approximately the height of this mountain assuming the length of the earth's radius to be 4000 miles.

6. Show that the mutual actions of a system of particles cannot change the total momentum of the system in any direction.

A pile is struck by the hammer of a pile-driver which has fallen through a distance of 6 feet. The mass of the pile is 2 tons and that of the hammer half a ton. Supposing the hammer to remain in contact with the pile and the latter to be driven 6 inches into the ground, find the resisting force.

7. Define *work*, *kinetic energy*, *power*.

Find an expression for the kinetic energy of a system of particles rigidly connected together and turning about a fixed axis with angular velocity $\omega$.

A fly-wheel whose mass is 10,000 pounds and whose radius of gyration is 10 feet is making 20 revolutions per minute; find its kinetic energy in footpounds. If it now begin to yield energy at the average rate of one Horse-Power, at what rate will it be revolving one second later?

8. Find from the Principle of Energy, or otherwise, the acceleration of a solid homogeneous sphere rolling down an inclined plane without slipping.

If $m$ be the mass of the sphere and $a$ the inclination of the plane to the horizontal, show that the force of friction at the point of contact of sphere and plane is $\frac{2}{7}\,mg \sin \alpha$.

Given two spheres of equal mass and volume, one solid, the other having a central spherical cavity, how could you, by letting both roll down an inclined plane, tell which of them is the solid sphere?

9. Define a *couple*.

Prove that a system of forces acting in one plane upon a rigid body can be reduced to either a single force or a single couple.

A rigid plane polygon is acted on by forces which are represented in magnitude and line of action by the sides of the polygon taken in order; show that the system is equivalent to a couple whose moment is proportional to twice the area of the polygon.

10. Prove that if a body be suspended by a fine string from a fixed point the string and the Centre of Gravity of the body will lie in one straight line.

$ABCD$ is a thin rectangular plate. Through $D$ a line is drawn cutting $AB$ in $O$; if, when the triangle $AOD$ is cut off and the quadrilateral $OBCD$ is suspended from $O$, it rests with its parallel sides horizontal, show that

$$AO : OB = \sqrt{3} : 1.$$

11. Prove Torricelli's Theorem, that, if liquid be allowed to escape by a small orifice from a vessel which is kept full, the velocity of efflux is the same as that which would be acquired by a body falling from rest through a height equal to the depth of the orifice below the surface of the liquid.

12. State and prove the principle of Archimedes for a body immersed in a fluid.

A block of wood floats in water with $\frac{3}{4}$ of its volume submerged;

- (i) what is the specific gravity of the wood?
- (ii) what fraction of the same block would be submerged if it were floating in alcohol (specific gravity ·8)?
- (iii) if the mass of the block be 306 grams, what mass of lead (specific gravity 11) suspended from it as a sinker would just wholly submerge it in alcohol?

13. Explain briefly how sound is propagated through air, giving a graphical representation of a complete wave.

What is the wave-length in air for the note of a tuning-fork which makes 256 vibrations per second, the velocity of sound in air being 1100 feet per second?

14. Explain clearly the origin of the beats which are heard when two notes of nearly the same pitch are sounded together; explain too the production of beats between two notes whose interval differs very little from a consonant interval.

A note of 256 vibrations per second and another of 382 per second are sounded together; if each note contains the first two harmonics of the fundamental, show that two of the harmonics will give 4 beats per second.

15. If a glass tube open at both ends is fitted up with one end dipping into the water, so that the length of the tube above the water may be varied, and a tuning-fork in vibration be held over the upper end of the tube, explain how the sound is strengthened when the tube has a particular length. Describe carefully the motion of the air in the tube.

If $l$ be the length of the tube when the resonance is strongest, $V$ the velocity of sound in air, and $n$ the frequency of the note of the tuning-fork, find the approximate relation between $V$, $n$ and $l$.

## SECOND PAPER—Three Hours.

(*Do not attempt more than* SIX *questions.*)

1. State the distinction between Heat and Temperature, and illustrate as far as possible by analogies.

Give some account of the experiments which disproved the materiality of heat, and of the theory of dynamical equivalence now adopted.

2. The stem of a thermometer is divided into arbitrary divisions of equal volume. When the temperature of the whole is 0° C. the level of the mercury is at a certain point $A$ on the stem, and when the temperature is 100° C. the level of the mercury is 250 divisions above $A$. Find the volume of the bulb and stem up to $A$ in scale divisions. [Data:—Cubical expansion of mercury ·00018, cubical expansion of glass ·000025.]

3. Define co-efficient of linear expansion of a solid, and describe a method of finding it with accuracy.

Describe some form of pendulum whose period of vibration is unaffected by change in temperature.

The density of platinum is 21·9 grammes per cubic centimetre at 0° C., and its mean co-efficient of linear expansion between 0° C. and 100° C. is $8{\cdot}9 \times 10^{-6}$ per 1° C. Assuming this value to hold between 0° C. and 1000° C., find the density of platinum at 1000° C.

4. What is meant by the "dew-point"? Describe fully one method for determining it.

Show, stating clearly the assumptions made, that the actual pressure of the aqueous vapour present in the atmosphere is equal to the maximum pressure of the vapour at the dew-point.

Explain exactly how a determination of the dew-point enables the mass of aqueous vapour present in a given volume of air to be determined.

5. Define in general terms unit quantity of heat. Define specific heat. Explain the principles underlying any two distinct methods of finding the specific heat of a substance.

Describe in detail the method by Bunsen's ice calorimeter.

The density of water at 0° being taken as 1, and the density of ice at the same temperature as ·917, find the mass of ice melted by the cooling of 100 grammes of copper (specific heat ·096) in the well of a Bunsen calorimeter, and the distance which the end of the mercury column recedes along the indicating tube, which is ·03 of a square centimetre in area of cross-section.

6. What do you regard as the essential characteristics of the transmission of a disturbance in the form of waves? Illustrate by considering the propagation of waves in water.

State the two theories which have been advanced as to the nature of light, and give the arguments which lead you to adopt one of these theories and discard the other.

7. Describe Fizeau's method of determining the velocity of light, and prove that if $n$ be the number of teeth in the wheel, $\omega$ its angular velocity, and $d$ the distance of the wheel from the mirror, no light will be returned to the observer, and the velocity of propagation will be given if

$$v = \frac{2n\omega d}{(2m+1)\pi},$$

where $2m+1$ denotes some odd number? What does this number represent?

8. Define relative index of refraction of two media for light of a definite wave length, and find its value in terms of the indices of refraction of the two media.

State the laws of refraction, and describe how they may be verified by experiment. Explain fully how total reflection occurs.

9. Define "power of a lens," and show that it is equal to the sum of the reciprocals of two conjugate focal distances.

Show how to represent conjugate focal distances of a lens graphically, and prove by means of your construction, or otherwise, that the distance between two conjugate foci of a convex lens must be at least four times the principal focal distance if the image is real.

Show that if the two spherical surfaces of a lens meet in a sharp circular edge of diameter 4 inches, and the thickness of the lens at the middle be $\frac{1}{2}$ inch, the focal length of the lens will be 8 inches if the index of refraction of the material be 1·5.

10. State what you conceive to be the nature of plane polarized light. Describe a method of producing and testing plane polarized light.

A beam of plane polarized light is sent through a solution of sugar, and then along the lines of force in a magnetic field. How do the actions of the sugar-solution and the field on the ray agree, and how do they differ?

**11.** Define electric potential at a point due to a given distribution of electricity.

Show that the excess of the potential at a point $P$ in the field above the potential at a point $Q = \Sigma\frac{q}{AP} - \Sigma\frac{q}{AQ}$, where $q$ denotes a representative charge at a point $A$, and $\Sigma$ denotes summation for all such charges at different points $A$. Hence show that the work done in transferring a unit charge from $P$ to $Q$ is independent of the path adopted, and is zero for a closed path.

Describe some form of electrometer or instrument for measuring differences of potential, and explain how to use it.

**12.** Define capacity of a conductor, capacity of a condenser. Find the capacity of a condenser consisting of two concentric spherical conductors, and deduce that of a condenser formed of two very large parallel plates.

Define specific inductive capacity, and show how to find the specific inductive capacity of a flat slab of paraffin, stating what apparatus you would require.

**13.** Show that a straight magnet of moment $M$ experiences a couple $MH \sin\theta$ when it is placed in a uniform magnetic field of strength $H$, with its axis inclined at an angle $\theta$ to the direction of the lines of the field. Show that the period of oscillation of a magnet horizontally suspended in the earth's field is $2\pi/\sqrt{MH/\mu}$, where $H$ is the earth's horizontal field intensity, and $\mu$ is the amount of inertia of the magnet about the axis of suspension.

Use this result to find a means of comparing the values of the earth's horizontal field intensity at two places.

**14.** State Ohm's law. Show how to compare the resistances of two given metallic conductors, and the electromotive forces of two given cells.

Define specific resistance of a material. The diameter of a copper wire is ·508 millimetre, and the resistance of 10 metres of the wire is found to be ·849 ohm. Find the specific resistance of its material.

**15.** When two conductors maintained at different potentials are connected by a conducting wire, a current of electricity is said to flow from that of higher potential to the other. What phenomena may be observed during the passage of the electric current? How are the phenomena quantitatively related?

**16.** Define the electromagnetic absolute unit of current. Explain how current may be measured in absolute units by the tangent galvanometer, giving a description of the instrument.

A tangent galvanometer has 40 turns of wire, the mean radius of a turn being 15 cms. It is set up at a place where the earth's horizontal field intensity is ·153 C.G.S. unit. What current must pass through the galvanometer in order that the deflection of the needle may be 45°?

CHEMISTRY.—See p. 571.

ZOOLOGY.—See p. 572.

BOTANY.—See p. 572.

## *D.—DEPARTMENT OF HISTORY AND LAW.*

## HISTORY.

### FIRST PAPER—THREE HOURS.

(ONE *at least of the questions marked * must be taken. Not more than* EIGHT *questions in all should be attempted.*)

*1. Write short notes on Paulinus, Roger of Salisbury, Hubert Walter, Thomas of Lancaster, Margaret of Anjou.

*2. Explain briefly the importance of the following: Domesday Survey, The Assize of Clarendon, The Confirmatio Cartarum, The Canterbury Tales, The Statute of Provisors, The Paston Letters.

*3. State the geographical position and importance of: Deorham, Maldon, Bouvines, Neville's Cross, Bretigny, Troyes, Towton, Barnet.

4. Sketch the political relations of the great Northumbrian kings of the seventh century with the Picts, Scots, and Welsh.

5. Trace the steps by which the Danelagh became assimilated to the rest of England.

6. Sketch the relations between the crowns of England and Scotland from the death of William II. to the accession of John.

7. Illustrate from the history of the reign of Henry III. the importance of John's submission to the Pope.

8. Point out the causes of the failure of Edward I. in his relations with John Balliol.

9. Show carefully the bearing of the dealings of Edward III. with Scotland on the outbreak of the Hundred Years' War.

10. How far was the fall of Richard II. due to his own character and policy, and how far to other causes?

11. Examine the distribution of political power among the various classes of society in England in the 15th century.

12. To what extent were the national interests of England concerned in the Wars of the Roses?

### SECOND PAPER—THREE HOURS.

(ONE *at least of the questions marked * must be taken. Not more than* EIGHT *questions in all should be attempted.*)

*1. Write short notes upon: Thomas Cromwell, Cardinal Beaton, Danby, Godolphin, Bolingbroke, Carteret, Shelburne.

*2. Explain the importance of: The Six Articles, The Case of Goodwin *v.* Fortescue, The Instrument of Government, The Septennial Act, Fox's India Bill.

3. Consider the reign of Henry VII. as an era of change in the policy of England towards Scotland and Ireland.

4. Illustrate and explain the administrative incapacity shown in the reign of Edward VI.

5. "The Spanish War under Elizabeth is the infancy of English trade." Examine this statement.

6. How far was the constitutional opposition to Charles I. strengthened or weakened by religious divisions?

7. What were the principal attempts to make peace during the Great Rebellion, and why did they fail?

8. Trace the causes of the restoration of Episcopacy in Scotland at the Restoration of Charles II. and account for the failure of the attempt.

9. How far were the objects with which England and her Allies entered the War of the Spanish Succession attained at the Peace of Utrecht?

10. Explain the gradual disappearance of the opposition in Scotland to the Union.

11. Compare Walpole and the younger Pitt as regards the sources of their parliamentary ascendancy.

12. Estimate the effect of the French Revolution upon political parties in England.

Constitutional Law and History.—See p. 586.

Roman Law.—See Civil Law, p. 579.

## II. FOR THE DEGREE WITH HONOURS.

(And for Snell Exhibition, April, 1901.)

### *A.—GROUP OF CLASSICS.*

## LATIN TRANSLATION—Three Hours.

1. Translate according to your profession. *Very brief* notes may be added where the translation is not self-explanatory:—

(*a*) Lucret. II. 251—271.
What is the drift of the argument here?
(*b*) Catull. 64. 267—277.
(*c*) Virg. *Aen.* VII. 376—391.
(*d*) Hor. *Epist.* I. 11. 17—31.
(*e*) Propert. I. 22.
(*f*) Pers. III. 77—87.
(*g*) Mart. III. 46.
(*h*) Juv. XI. 136—155.
(*i*) *Either* Cic. *ad Atticum* IV. 1, *or* Cic. *Philipp.* V. 12. 31, 32, *or* *Pro Sest.* 64. 135.
Explain the situation.
(*k*) *Either* Livy II. 23. 3—6, *or* Livy XXIII. 31. 9—13.

(*l*) Noctem minacem et in scelus erupturam fors lenivit: nam luna claro repente caelo visa languescere. Id miles rationis ignarus omen praesentium accepit, suis laboribus defectionem sideris adsimulans, prosperеque cessura quae pergerent, si fulgor et claritudo deae redderetur. Igitur aeris sono, tubarum cornuumque concentu strepere; prout splendidior obscuriorve, laetari aut maerere; et postquam ortae nubes offecere visui creditumque conditam tenebris, ut sunt mobiles ad superstitionem perculsae semel mentes, sibi aeternum laborem portendi, sua facinora aversari deos lamentantur. Utendum inclinatione ea Caesar et quae casus obtulerat in sapientiam vertenda ratus circumiri tentoria iubet; accitur centurio Clemens et si alii bonis artibus grati in vulgus. Ii vigiliis, stationibus, custodiis portarum se inserunt, spem offerunt, metum intendunt.—Tac. *Ann.* I. 28. 1—5.

2. Translate, and explain with reference to the context, passages selected according to your profession:—

(*a*) *Either* Plaut. *Capt.* 993—999, *or* Plaut. *Mil. Glor.* 221—227, *or* Plaut. *Trin.* 1017—1022.

(*b*) Catull. 65. 15, 16.

(*c*) Virg. *Aen.* XI. 164—166.

Add a note on the syntax.

(*d*) Hor. *Sat.* I. 6. 125, 126.

Comment on the reading.

(*e*) Hor. *Ars. Poet.* 128—130.

To what is Horace's argument directed at this point?

(*f*) Primus ego ingredior puro de fonte sacerdos
Itala per Graios orgia ferre choros.—Propert. III. 1. 3, 4.

Explain and criticise Propertius's claim.

(*g*) Pers. V. 14—16.

(*h*) Mart. II. 29. 7—10.

(*i*) Juv. III. 318—322.

Explain the allusions, and discuss the reading of the last line.

(*k*) Cic. *ad Atticum* II. 20. 22—26, *or* Cic. *Philipp.* 9. 22, *or* Cic. *Pro Balbo*. 12. 29.

(*l*) Livy III. 37. 5, *or* Livy XXII. 57. 6.

(*m*) Tac. *Ann.* III. 28. 3, 4.

In what connexion does Tacitus introduce this digression?

## LATIN PROSE—Three Hours.

Translate into Latin prose:—

Bacon's deviation into the busy paths of office cut short his labours in philosophy. It has been suggested, indeed, that we have no cause to deplore Bacon's preference of politics. It is admitted that Bacon himself mourned in after-life over his misspent talents; but it is said that 'if Bacon had carried out his early threat and retired with a couple of men to Cambridge, and spent his life in exploring the one true path by which man might attain to be master of Nature, and followed it out far enough to find (as he must have done) that it led to impassable places—and had at the same time seen from his retirement the political condition of the country going from bad to worse for want of better advice and more faithful service, would he not in like manner have accused himself of having misspent his talents in things for which he was less fit than he had fancied, and forsaken a vocation in which he might have helped to save a country from a civil war?' Bacon contributed nothing of the "better advice" or "faithful service" that might have averted the coming civil war. He did worse than nothing. He degraded himself, he injured his country and posterity by tarnishing the honourable traditions of the Bench; he lowered morality and shook the faith of human kind in human nature by making himself an ever memorable warning of the compatibility of greatness and weakness. Surely, rather than this it would have been preferable even to have done nothing with two men at Cambridge.

## LATIN GENERAL PAPER—Two Hours.

### A. Unprepared Translation.

Dat procul interea signum Neptunus, et una
Monstriferi mugire sinus, Sigeaque pestis
Agglomerare fretum, cuius stellantia glauca
Lumina nube tremunt, atque ordine curva trisulco
Fulmineus quatit ora fragor; pelagoque remenso
Cauda redit, passosque sinus rapit ardua cervix.
Illam incumbentem per mille volumina pontus
Prosequitur lateri assultans, trepidisque ruentem
Litoribus sua cogit hiems: non fluctibus aequis
Nubiferi venit unda Noti, non Africus alto
Tantus ovat, patriisque manus quum plenus habenis
Orion bipedum flatu mare tollit equorum.
Ecce ducem placitae furiis crudescere pugnae,
Surgentemque toris stupet immanemque paratu
Aeacides, pulsentque graves ut terga pharetrae.
Ille, patrem pelagique deos suaque arma precatus,
Insiluit scopulo, motumque e sedibus aequor
Horruit et celsi spatiosa volumina monstri.
Qualis ubi a gelidi Boreas convallibus Hebri
Tollitur, et volucres Rhipaea per ardua nubes
Praecipitat, piceo necdum tenet omnia coelo.

(Valerius Flaccus, *Argonautics*, Bk. II.)

B. Scan any *six* of the following verses; name the metre in each case, and note metrical licences where they occur:—

(*a*) Quoi tuam quom rem credideris, sine omni cura dormias.
(*b*) Permirum ecastor praedicas, te adisse atque exorasse.
(*c*) Iovi disque ago gratias merito magnas.
(*d*) Luteae violae mihi luteumque papaver.
(*e*) Mihi floridis corollis redimita domus erat.
(*f*) Simul unctos Tiberinis humeros lavit in undis.
(*g*) Insignemque pharetra.

(*h*) Tu vina Torquato move consule pressa meo.
(*i*) Maeroris igitur causa quae? Domi cenat.
(*j*) Nam sunt hinc tibi, sunt et hinc amici.

### C. HISTORY AND LITERATURE.

(TWO *literary and* TWO *historical questions should be attempted.*)

1. What circumstances led to the publication of the Twelve Tables? What traces of Greek influence do they show?

2. Compare the Roman legion in the Hannibalic War and under the Empire.

3. Describe carefully the extent of Rome's Empire at the accession of Tiberius, and the arrangements made for governing the various provinces.

4. Illustrate by quotation Horace's relations to contemporary men of letters.

5. 'Lucretius was an Epicurean of the garden, Horace of the sty.' Contrast the Epicureanism of the two poets.

6. 'Satira tota nostra est.' Discuss the development of Roman satire, and the different conceptions of it entertained by different satirists.

7. Illustrate the influence of poetic diction on the syntax, vocabulary, and sentence-construction of Tacitus.

8. In what respects does the Latinity of Plautus agree with the Latinity of Cicero, and in what respects do they differ?

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## GREEK TRANSLATION—THREE HOURS.

Translate according to your profession. *Very brief* notes may be added where the translation is not self-explanatory.

1. HOM. *Il.* IX. 496—512.

Remark on the moods and tenses in lines 508, 509. *ὃς μέν τ' αἰδέσεται . . . εὐχομένοιο.*

2. HOM. *Od.* X. 76—91.

Add a note on the interpretation of this description.

3.

*χρονισθεὶς δ' ἀπέδειξεν*
*ἔθος τὸ πρὸς τοκέων· χά-*
*ριν τροφᾶς γὰρ ἀμείβων*
*μηλοφόνοισιν ἄσαισιν*
*δαῖτ' ἀκέλευστος ἔτευξεν·*
*αἵματι δ' οἶκος ἐφύρθη,*
*ἄμαχον ἄλγος οἰκέταις,*
*μέγα σίνος πολυκτόνον·*
*ἐκ θεοῦ δ' ἱερεύς τις ἄτας δόμοις προσεθρέφθη.*
*πάραυτα δ' ἐλθεῖν ἐς Ἰλίου πόλιν*
*λέγοιμ' ἂν φρόνημα μὲν νηνέμου γαλάνας,*
*ἀκασκαῖον δ' ἄγαλμα πλούτου,*
*μαλθακὸν ὀμμάτων βέλος,*
*δηξίθυμον ἔρωτος ἄνθος·*

παρακλίνασ' ἐπέκρανεν δὲ γάμου πικρὰς τελευτάς,
δύσεδρος καὶ δυσόμιλος συμένα Πριαμίδαισιν
πομπᾷ Διὸς ξενίου
νυμφόκλαυτος Ἐρινύς.
παλαίφατος δ' ἐν βροτοῖς γέρων λόγος
τέτυκται, μέγαν τελεσθέντα φωτὸς ὄλβον
τεκνοῦσθαι, μηδ' ἄπαιδα θνῄσκειν·
ἐκ δ' ἀγαθᾶς τύχας γένει
βλαστάνειν ἀκόρεστον οἰζύν.

Aesch. *Agam.* 701—726.

4. Soph. *Antig.* 1048—1063.

5. Soph. *Oed. Rex.* 687—706.

Discuss the variant readings.

6. (*a*) Pind. *Olymp.* XIII. 55—72.

(*b*)

Λάχων Διὸς μεγίστου
λάχε φέρτατον πόδεσσι
κῦδος ἐπ' Ἀλφεοῦ προχοαῖσιν ἔργων.
δι' ὅσσα πάροιθεν
ἀμπελοτρόφον Κέον
ἄεισάν ποτ' Ὀλυμπίαι
πύξ τε καὶ στάδιον κρατεῦσαν στεφάνοις ἐθείρας
νεανίαι βρύοντες.
σὲ δὲ νῦν ἀναξιάλου
Οὐρανίας ὕμνος ἕκατι νίκας
Ἀριστομένειον
ὦ ποδάνεμον τέκος,
γεραίρει προδόμοις ἀοι-
δαῖς, ὅτι στάδιον κρατή-
σας Κέον εὐκλέϊξας.

Bacchyl. VI.

7. (*a*) Eurip. *Alcest.* 751—772.
   (*b*) Eurip. *Hippol.* 1364—1381.
   (*c*) Eurip. *Bacch.* 713—730.

8. Aristoph. *Ran.* 494—511.

9. *Herod.* VI. 77.

Explain the oracle in the light of the event.

10. (*a*) Thucyd. I. 99.

What was the original constitution of the league?

(*b*) Τὸ δὲ πρὸ τούτου ἡ ἀκρόπολις ἡ νῦν οὖσα πόλις ἦν, καὶ τὸ ὑπ' αὐτὴν πρὸς νότον μάλιστα τετραμμένον. τεκμήριον δέ· τὰ γὰρ ἱερὰ ἐν αὐτῇ τῇ ἀκροπόλει καὶ ἄλλων θεῶν ἐστι, καὶ τὰ ἔξω πρὸς τοῦτο τὸ μέρος τῆς πόλεως μᾶλλον ἵδρυται, τό τε τοῦ Διὸς τοῦ Ὀλυμπίου καὶ τὸ Πύθιον καὶ τὸ τῆς Γῆς καὶ τὸ ἐν Λίμναις Διονύσου, ᾧ τὰ ἀρχαιότερα Διονύσια τῇ δωδεκάτῃ ποιεῖται ἐν μηνὶ Ἀνθεστηριῶνι, ὥσπερ καὶ οἱ ἀπ' Ἀθηναίων Ἴωνες ἔτι καὶ νῦν νομίζουσιν. ἵδρυται δὲ καὶ ἄλλα ἱερὰ ταύτῃ ἀρχαῖα. καὶ τῇ κρήνῃ τῇ νῦν μὲν τῶν τυράννων οὕτω σκευασάντων Ἐννεακρούνῳ καλουμένῃ, τὸ δὲ πάλαι φανερῶν τῶν πηγῶν οὐσῶν Καλλιρρόῃ ὠνομασμένῃ, ἐκεῖνοί τε ἐγγὺς οὔσῃ τὰ πλείστου ἄξια ἐχρῶντο, καὶ νῦν ἔτι ἀπὸ τοῦ ἀρχαίου πρό τε γαμικῶν καὶ ἐς ἄλλα τῶν ἱερῶν νομίζεται τῷ ὕδατι χρῆσθαι. καλεῖται δὲ διὰ τὴν παλαιὰν τούτῃ κατοίκησιν καὶ ἡ ἀκρόπολις μέχρι τοῦδε ἔτι ὑπ' Ἀθηναίων πόλις.—Thucyd. II. 15. 3—6.

Discuss the reading. What political change is referred to?

11. (*a*) Plat. *Rep.* IV. 443 c—444 a.

How is this conception reached?

(*b*) Ἄκουε τοίνυν ὡς ἐροῦντος. ἐγὼ γάρ, ἔφη, ὦ Κέβης, νέος ὢν θαυμαστῶς ὡς ἐπεθύμησα ταύτης τῆς σοφίας, ἣν δὴ καλοῦσι περὶ φύσεως ἱστορίαν. ὑπερήφανος γάρ μοι ἐδόκει εἶναι, εἰδέναι τὰς αἰτίας ἑκάστου, διὰ τί γίγνεται ἕκαστον καὶ διὰ τί ἀπόλλυται καὶ διὰ τί ἔστι· καὶ πολλάκις ἐμαυτὸν ἄνω κάτω μετέβαλλον σκοπῶν πρῶτον τὰ τοιάδε, ἆρ' ἐπειδὰν τὸ θερμὸν καὶ τὸ ψυχρὸν σηπεδόνα τινὰ λάβῃ, ὥς τινες ἔλεγον, τότε δὴ τὰ ζῷα συντρέφεται· καὶ πότερον τὸ αἷμά ἐστιν ᾧ φρονοῦμεν, ἢ ὁ ἀὴρ ἢ τὸ πῦρ, ἢ τούτων μὲν οὐδέν, ὁ δ' ἐγκέφαλός ἐστιν ὁ τὰς αἰσθήσεις παρέχων τοῦ ἀκούειν καὶ ὁρᾶν καὶ ὀσφραίνεσθαι, ἐκ τούτων δὲ γίγνοιτο μνήμη καὶ δόξα, ἐκ δὲ μνήμης καὶ δόξης λαβούσης τὸ ἠρεμεῖν κατὰ ταῦτα γίγνεσθαι ἐπιστήμην· καὶ αὖ τούτων τὰς φθορὰς σκοπῶν, καὶ τὰ περὶ τὸν οὐρανὸν καὶ τὴν γῆν πάθη, τελευτῶν οὕτως ἐμαυτῷ ἔδοξα πρὸς ταύτην τὴν σκέψιν ἀφυὴς εἶναι, ὡς οὐδὲν χρῆμα.—Plat. *Phaed.* 45.

Who are the philosophers referred to?

12. Arist. *Poet.* XVII. 1, 2.

Discuss the reading and the illustration.

13. Dem. *De Cor.* 149, 150.

What was the occasion?

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## GREEK PROSE AND UNPREPARED TRANSLATION.

### Three Hours.

1. For Greek Prose:—

It is methinks a very melancholy consideration, that a little negligence can spoil us, but great industry is necessary to improve us: the most excellent natures are soon depreciated, but evil tempers are long before they are exalted into good habits. To help this by punishments, is the same thing as killing a man to cure him of a distemper; when he comes to suffer punishment, in that one circumstance he is brought below the existence of a rational creature, and is in the state of a brute that moves only by the admonition of stripes. But since this custom of educating by the lash is suffered by the gentry of Great Britain, I would prevail only that honest heavy lads may be dismissed from slavery sooner than they are at present, and not whipped on to their fourteenth or fifteenth year, whether they expect any progress from them or not. Let the child's capacity be forthwith examined, and he sent to some mechanic way of life, without respect to his birth, if nature designed him for nothing higher: let him go before he has innocently suffered, and is debased into a dereliction of mind for being what it is no guilt to be, a plain man.—Steele.

2. **For Unprepared Translation :—**

(a) Αἲ γὰρ, Ζεῦ κύδιστε πάτερ, καὶ πότνι' Ἀθάνα,
Ἐχθροὺς ἐκ νάσοιο κακὰν πέμψειαν ἀϋτάν.
Ἄστεα δὲ προτέροισι πάλιν ναίοιτο πολίταις,
Δυσμενέων ὅσα χεῖρες ἐλωβήσαντο κατ' ἄκρας.
Ἀγροὺς δ' ἐργάζοιντο τεθαλότας· αἱ δ' ἀνάριθμοι
Μήλων χιλιάδες βοτάναις διαπιανθεῖσαι
Ἀμ πεδίον βληχῷντο, βόες δ' ἀγεληδὸν ἐς αὖλιν
Ἐρχόμεναι σκνιφαῖον ἐπισπεύδοιεν ὁδίταν·
Νειοὶ δ' ἐκπονέοιντο ποτὶ σπόρον, ἁνίκα τέττιξ,
Ποιμένας ἐνδίους πεφυλαγμένος, ἐν δενδρέοισιν
Ἀχεῖ ἐπ' ἀκρεμόνεσσιν· ἀράχνια δ' εἰς ὅπλ' ἀράχναι
Λεπτὰ διαστήσαιντο, βοᾶς δ' ἔτι μηδ' ὄνομ' εἴη.

(b) Περὶ μὲν τοίνυν τοῦ πατρός, ὦ Ἀθηναῖοι, [illegible], ταῦτ' ἔχω λέγειν, καὶ μάρτυρας παρέσχημαι τοὺς ὑπ' αὐτῶν τούτων ὁμολογουμένους εἶναι πολίτας, μαρτυροῦντας ἐκεῖνον ἀστὸν ἀμφοτέρωθεν εἶναι. φαίνεται δὲ ζῶν ἔτη τοσαῦτα καὶ τοῦτ' ἐνθάδε, καὶ οὐδαμοῦ πώποθ' ὡς ξένος ἐξετασθείς, ἀλλὰ πρὸς τούτους ὄντας συγγενεῖς καταφεύγων, οὗτοι δὲ καὶ προσδεχόμενοι καὶ τῆς οὐσίας μεταδόντες ὡς αὑτῶν ἑνί. τοὺς χρόνους τοίνυν οὕτω φαίνεται γεγονώς, ὥστ' εἰ καὶ κατὰ θάτερ' ἀστὸς ἦν, εἶναι πολίτην προσήκειν αὐτόν· γέγονε γὰρ πρὸ Εὐκλείδου. περὶ δὲ τῆς μητρὸς (καὶ γὰρ ταύτην διαβεβλήκασί μου) λέξω, καὶ μάρτυρας ὧν ἂν λέγω καλῶ. καίτοι, ὦ ἄνδρες Ἀθηναῖοι, οὐ μόνον παρὰ τὸ ψήφισμα τὰ περὶ τὴν ἀγορὰν διέβαλλεν ἡμᾶς Εὐβουλίδης, ἀλλὰ καὶ παρὰ τοὺς νόμους, οἳ κελεύουσιν ἔνοχον εἶναι τῇ κακηγορίᾳ τὸν τὴν ἐργασίαν τὴν ἐν τῇ ἀγορᾷ τῶν πολιτῶν ἢ τῶν πολιτίδων ὀνειδίζοντά τινι. ἡμεῖς δ' ὁμολογοῦμεν καὶ ταινίας πωλεῖν καὶ ζῆν οὐχ ὅντινα τρόπον βουλόμεθα. καὶ εἴ σοί ἐστι τοῦτο σημεῖον, ὦ Εὐβουλίδη, τοῦ μὴ Ἀθηναίους ἡμᾶς εἶναι, ἐγώ σοι τοὐναντίον ὅλως τούτου ἐπιδείξω, ὅτι οὐκ ἔξεστι ξένῳ ἐν τῇ ἀγορᾷ ἐργάζεσθαι.

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## GREEK GENERAL PAPER—Three Hours.

(*Not more than six questions need be attempted.*)

1. What peculiarities of form and usage distinguish the Homeric Subjunctive?

2. ἡ μὲν Ἰλιὰς ἁπλοῦν καὶ παθητικόν, ἡ δὲ Ὀδύσσεια πεπλεγμένον καὶ ἠθική. Explain and criticize this dictum.

3. What debt does Tragedy owe to Epic and to Lyric respectively?

4. Discuss the connection of Greek Poetry and Greek Sculpture at any period.

5. "The conception of the soul as immaterial appears first in Plato." Illustrate this.

6. ὅτε μὲν οἷον πάντα ἐπιφλέγει τῇ φορᾷ, σβέννυται δ' ἀλόγως πολλάκις καὶ πίπτει ἀτυχέστατα (Longinus). Is this a fair criticism of Sophocles?

7. Describe the scope and the historical importance of any *one* of the following—The Xenophontic Ἀθηναίων πολιτεία, Euripides, *Andromache*; Andocides, *de Mysteriis*; Isocrates, *Panegyricus*; Demosthenes, *de Chersoneso*; Aeschines, *in Timarchum*.

8. Discuss the rise of Tyranny in Greece, and its effect on letters *or* on art.

9. Describe the functions of the executive at Athens and its relation to the judiciary *either* in the Periclean *or* in the Demosthenic age.

10. What was the arrangement of the Homeric house? How did it differ from the domestic architecture of the Historic Period?

11. Illustrate the rationalistic and romantic elements in Euripides.

## *B.—GROUP OF MENTAL PHILOSOPHY.*

## LOGIC AND METAPHYSICS.

### FIRST PAPER—Three Hours.

1. Discuss the view that the determining element in the metaphysic of Plato is to be found in his ethical and religious conceptions.

2. Summarize and consider the evidence for asserting that the doctrine of ideas undergoes development in the Platonic philosophy.

3. Define exactly the relation of Aristotle's doctrine to the Platonic on (*a*) the nature of the soul, (*b*) the relation of God to the world of generation, (*c*) the apprehension of first principles.

4. Analyse Aristotle's conception of development. Compare it with similar conceptions in modern speculative philosophy and natural science.

5. 'The Stoic doctrine is best understood as a systematic effort to overcome the dualism of the Platonic-Aristotelian philosophy.' Illustrate this by considering in detail the Stoic analysis of knowledge.

6. 'The Kantian philosophy is demonstrated Positivism.' Discuss the adequacy of this description.

### SECOND PAPER—Three Hours.

1. Discuss, with particular reference to Kant's doctrines, the relation between the notions *a priori* and *innate*.

2. Is it possible to separate the critical or transcendental treatment of knowledge from the psychological?

3. "Without the notion of the thing-in-itself, one cannot enter into the critical philosophy; with that notion, one cannot remain in it." Explain and discuss.

4. Explain exactly the meaning assigned by Kant to the term *objective*, taking into account the different applications of it.

5. Critically examine the statement that we know only ideas. Point out the ambiguities to which the statement is liable.

6. Investigate the statement that 'the system of laws finds its only ground in the system of ends.'

7. Discuss the view that the principles of knowledge are not axioms but postulates.

## MORAL PHILOSOPHY.

### FIRST PAPER—Three Hours.

1. Compare Plato's conception of Justice with that of Aristotle.

2. "The community as a whole is wiser than any individual member of it." State and examine the grounds on which Aristotle held this view.

3. Explain Spinoza's conception of God as Immanent Cause and consider how far it is compatible with his view of Freedom.

4. Compare the doctrine of the two worlds as developed by Plato and Kant respectively.

5. "Green concludes the existence of an eternal consciousness from an Atomistic view of Experience." Is this account of Green's procedure correct? What is the value of his argument?

6. Can it be maintained that Kant's conception of the connexion between morality and religion is such as to make both of them inexplicable?

7. Explain Mr. Leslie Stephen's view of "the relation between social vitality and morality."

### SECOND PAPER—Three Hours.

1. "The attempt of the Hegelian and Neo-Hegelian school to unify the divine and the human subject is ultimately destructive of the reality of both." Discuss this view.

2. Examine the view that private property is a genuine extension of personality, and that apart from it man cannot be moral.

3. "The world is the best of all possible worlds, and everything in it is a necessary Evil." What is meant by this statement, and what is its bearing on the views of Schopenhauer and Leibnitz?

4. What is the value of the recent substitution of the doctrine that "Reality is Experience" for the view that "Reality is Thought?"

5. Explain and criticise the view that "The Ethical Ideal is not a Moral Principle or end of action, but a Moral Personality."

6. Trace the history of the Idea of Common Good in the political theories of Spinoza, Rousseau, and Burke.

7. State and criticise the views of Plato and Aristotle as to the comparative value of the Practical and Speculative life. How does their view of the speculative life connect itself with their metaphysical doctrine?

## LOGIC AND MORAL PHILOSOPHY—Four Hours.

1. Give a careful analysis of the notion of causal connexion. Apply your view to a criticism of the main ways of interpreting the relation of mind and body.

2. Examine critically the Atomist (or Associationist) view in psychology.

3. 'The conception of an independent external world is a social product.' Discuss this.

4. 'It was Fichte's great merit to have perceived the collective character of the unity of Kant's work and to have set philosophy the problem of converting it into an organic unity.' Explain and discuss this.

5. 'The fundamental difference between a theory of art, a theory of morals, and a theory of knowledge lies in their original data; and consequently a moral theory can be as little estimated by its intellectual consequences as a theory of knowledge or of art can by their moral consequences.' Explain and examine this view.

6. 'If man's knowledge of the nature and content of the moral ideal is only being gradually attained, then no moral imperative can be categorical.' Discuss this statement.

7. What errors affecting moral doctrine have sprung from confusing the distinction between Subject and Object with the distinction between Thought and Matter, Self and not-Self?

8. Critically examine the view that the individual alone is real.

## *C.—GROUP OF MATHEMATICS AND NATURAL PHILOSOPHY.*

## MATHEMATICS.

### FIRST PAPER—THREE HOURS.

(*Candidates are not expected to do more than about two-thirds of this paper.*)

1. Show that the foot of the perpendicular from the focus on the tangent at any point of a parabola lies on the tangent at the vertex.

Given the vertex of a parabola and a fixed straight line which is a tangent to it, show that the locus of the focus is a parabola. (Geometry.)

2. If $PCP'$, $DCD'$ be conjugate diameters of an ellipse and $QVQ'$ be a double ordinate parallel to $DD'$, prove that

$$QV^2 : PV \cdot P'V = CD^2 : CP^2.$$

Show also that if $R$ be any other point on the ellipse and $DR$, $D'R$ intersect $PP'$ in $U$, $U'$, then $U$, $P$, $U'$, $P'$ form a harmonic range. (Geometry.)

3. Find the equation of the normal at any point of the parabola $y^2 = 4ax$, and show that from a given point three normals can be drawn to the curve.

If the normals at points $A$, $B$, $C$ meet on the directrix at a point $O$, show that $O$, $C$ and the point of intersection of the tangents at $A$ and $B$ are collinear.

4. Define the polar of a point with respect to a conic and find the equation of the polar of the point $(x', y')$ with respect to the conic

$$ax^2 + 2hxy + by^2 + 2gx + 2fy + c = 0.$$

From a point $P$ tangents are drawn to an ellipse; if through the centre of the ellipse lines be drawn parallel to the tangents, the chords of the arcs they intercept on the curve will be parallel to the polar of $P$.

5. Interpret the equations:

$$\text{(i.)} \quad S - \lambda ut = 0,$$
$$\text{(ii.)} \quad S - \lambda t^2 = 0,$$

where $S = 0$ is the equation of a conic, $t = 0$ the equation of the tangent to the conic at a given point, and $u = 0$ the equation of a chord through the point.

If the circle of curvature at any point $P$ on a rectangular hyperbola cut the curve again in $Q$, show that $QP$ is perpendicular to the central radius vector drawn to $P$.

6. Find the equation in trilinear co-ordinates of a conic touching the sides of the triangle of reference.

A variable conic touches $BC$, $CA$, $AB$ the sides of a triangle $ABC$ at $X$, $Y$, $Z$ respectively and touches a fixed transversal $LMN$, $L$ being on $BC$, $M$ on $CA$ and $N$ on $AB$. Show that the locus of the point of concurrence of $AX$, $BY$, $CZ$ is a conic circumscribing the triangle and touching $AL$, $BM$, and $CN$.

7. Find the equation of a plane which contains one given straight line and is parallel to another not in the same plane.

Show that the equation of the plane containing the line $\frac{y}{b} + \frac{z}{c} = 1$, $x = 0$, and parallel to the line $\frac{x}{a} - \frac{z}{c} = 1$, $y = 0$, is $\frac{x}{a} - \frac{y}{b} - \frac{z}{c} + 1 = 0$; and if $2d$ be the shortest distance between the lines, prove that

$$\frac{1}{d^2} = \frac{1}{a^2} + \frac{1}{b^2} + \frac{1}{c^2}.$$

8. Prove that the sum of the squares of three conjugate radii of an ellipsoid is constant; also that the volume of the parallelopiped which has three conjugate radii for conterminous edges is constant.

If $OP$, $OQ$, $OR$ be conjugate radii of an ellipsoid whose semi axes are $a$, $b$, $c$, and $p_1$, $p_2$, $p_3$ be the intercepts made by the plane $PQR$ on the axes, show that

$$\frac{a^2}{p_1^2} + \frac{b^2}{p_2^2} + \frac{c^2}{p_3^2} = 3.$$

9. Find the conditions that the general equation of the second degree in $x$, $y$, $z$ may represent a surface of revolution.

A cone is described whose base is a plane section of the paraboloid $ax^2 + by^2 = 2z$ and whose vertex is at the origin. If the cone be a right circular cone, show that the plane of the base must be parallel to $Ox$ or to $Oy$ and must touch one of the cylinders

$$(b - a)y^2 - az^2 = 2z, \quad (a - b)x^2 - bz^2 = 2z.$$

10. Define the osculating plane at any point of a tortuous curve.

Find the equation of the osculating plane at any point of the curve given by the equations

$$x = 2a\cos t, \quad y = 2a\sin t, \quad z = bt^2,$$

and show that it meets a plane through the point and the axis of $z$ in a line which is inclined at a constant angle to the axis of $z$.

11. Find the asymptotes of the curve whose equation is

$$x^3y - xy^3 + 6ax^2y + a^2y - 16a^2x = 0.$$

Determine on which side of the asymptotes the corresponding branches lie; show that the origin is a point of inflexion and trace the curve fully.

12. Prove that

$$2\cos n\theta = (2\cos\theta)^n - \frac{n}{\underline{|1}}(2\cos\theta)^{n-2} + \frac{n(n-3)}{2}(2\cos\theta)^{n-4} - \ldots$$
$$+ (-1)^r \frac{n(n-r-1)(n-r-2)\ldots(n-2r+1)}{\underline{|r}}(2\cos\theta)^{n-2r} \pm \ldots.$$

Show that the equation whose roots are $2\cos\pi/9$, $2\cos 3\pi/9$, $2\cos 5\pi/9$, $2\cos 7\pi/9$ is

$$x^4 - x^3 - 3x^2 + 2x + 1 = 0;$$

hence prove that

$$\sec^2\pi/9 + \sec^2 3\pi/9 + \sec^2 5\pi/9 + \sec^2 7\pi/9 = 40.$$

13. Show that the cubic equation $ax^3 + 3bx^2 + 3cx + d = 0$ may in general be uniquely reduced to the form

$$A(x-p)^3 + B(x-q)^3 = 0.$$

Hence show how to solve it.

If $\alpha$, $\beta$, $\gamma$ be the roots of the cubic, show that $p$, $q$ are the roots of the quadratic

$$(\beta-\gamma)^2(x-\alpha)^2 + (\gamma-\alpha)^2(x-\beta)^2 + (\alpha-\beta)^2(x-\gamma)^2 = 0.$$

## SECOND PAPER—Three Hours.

(*Candidates are not expected to do more than about two-thirds of this paper.*)

1. Prove that the sines of the angles of a spherical triangle are proportional to the sines of the opposite sides.

$ABC$ is a spherical triangle right-angled at $C$; if $\theta$ be the arc of a great circle drawn from $C$ to the middle point of $AB$ and $\phi$ the angle between this arc and $CA$, show that

$$\tan^2\frac{c}{2} = \tan^2\theta\cos^2 2\phi + \sin^2\theta\sin^2 2\phi.$$

2. Find an expression for the area of a spherical triangle and deduce an expression for the area of a spherical polygon.

If the area of the triangle is a quarter of the surface of the sphere, show that

$$\tan\frac{b}{2}\tan\frac{c}{2} + \sec A = 0.$$

3. Prove Leibnitz's theorem for finding the $n$th differential coefficient of the product of two functions.

If $y = \sin(m\tan^{-1}x)$, show that

$$(1+x^2)^2\frac{d^2y}{dx^2}+2x(1+x^2)\frac{dy}{dx}+m^2y=0,$$

and prove that if $(y_n)_0$ denote the value of $\frac{d^ny}{dx^n}$ when $x$ is zero,

$$(y_{n+2})_0+(2n^2+m^2)(y_n)_0+n(n-1)^2(n-2)(y_{n-2})_0=0.$$

4. If $z=\phi(x, y)$, $x$ and $y$ being independent variables, define the partial differential coefficient of $z$ with respect to $x$ or $y$, and show that

$$\frac{d}{dx}\left(\frac{dz}{dy}\right)=\frac{d}{dy}\left(\frac{dz}{dx}\right).$$

Given four functions $p$, $v$, $\theta$, $\phi$, of which two are independent, and $E$ a function of $v$ and $\phi$ such that $dE=\theta d\phi-pdv$, show that

$$\left(\frac{dv}{d\theta}\right)_{p\ \text{constant}}=-\left(\frac{d\phi}{dp}\right)_{\theta\ \text{constant}},$$

$$\left(\frac{dv}{d\phi}\right)_{p\ \text{constant}}=\left(\frac{d\theta}{dp}\right)_{\phi\ \text{constant}},$$

$$\left(\frac{dp}{d\theta}\right)_{v\ \text{constant}}=\left(\frac{d\phi}{dv}\right)_{\theta\ \text{constant}},$$

$$\left(\frac{dp}{d\phi}\right)_{v\ \text{constant}}=-\left(\frac{d\theta}{dv}\right)_{\phi\ \text{constant}}.$$

5. Show that the radius of curvature at any point of a plane curve is $p+\frac{d^2p}{d\psi^2}$, where $p$ is the perpendicular from a fixed point on the tangent to the curve and $\psi$ the angle which the tangent makes with a fixed line.

Find the equation of the envelope of the line

$$x\sin\alpha+y\cos\alpha=a\sin\alpha\cos\alpha.$$

If $P$ be the point on the envelope defined by $\alpha$, find the radius of curvature at $P$, and show that if $Q$ be the centre of curvature at $P$ and $Q_1$ the centre of curvature for $Q$ on the locus of $Q$,

$$4PQ^2+QQ_1^2=9a^2.$$

6. Find the conditions that a function $f(x)$ of one variable should have a maximum or a minimum value when $x=a$.

Prove that the greatest distance of the tangent to the cardioid $r=a(1+\cos\theta)$ from the middle point of its axis is $a\sqrt{2}$.

7. If $f(x)$ be finite and continuous for all values of $x$ between $a$ and $b$, prove that

$$\mathop{\text{Lt}}_{n=\infty} h\{f(a)+f(a+h)+f(a+2h)+\dots+f(a+\overline{n-1}h)\}$$

is $\phi(b)-\phi(a)$; where $h=\frac{b-a}{n}$, and $\frac{d}{dx}\phi(x)=f(x)$.

Express as a definite integral

$$\mathop{\text{Lt}}_{n=\infty}\left\{\frac{1}{1^2+n^2}+\frac{2}{2^2+n^2}+\frac{3}{3^2+n^2}+\dots+\frac{np}{n^2p^2+n^2}\right\},$$

and find its value.

8. Integrate

$$\text{(i)} \int \frac{dx}{x+a}\sqrt{\frac{x+b}{x+c}}; \qquad \text{(ii)} \int \frac{b+a\sin x}{a+b\cos x}dx,\ a>b;$$

$$\text{(iii)} \int e^x \frac{1+\sin x}{1+\cos x}dx; \quad \text{(iv)} \int \frac{x^4+x^3+2x}{(x^2+1)^2(x+1)}dx; \quad \text{(v)} \int \frac{dx}{x^4\sqrt{1+x^2}}.$$

9. Show that, under certain conditions,

$$\frac{\partial}{\partial\alpha}\int_a^b f(x,\ \alpha)dx = \int_a^b \frac{\partial}{\partial\alpha}f(x,\ \alpha)dx,$$

and specify these conditions.

Prove that

$$\text{(i)} \quad \int_0^\infty e^{-a^2x^2}\cos 2bx\,dx = \frac{\sqrt{\pi}}{2a}e^{-\frac{b^2}{a^2}};$$

$$\text{(ii)} \quad \int_0^1 x^n(\log x)^r\,dx = \frac{(-1)^r\,|\underline{r}}{(n+1)^{r+1}}.$$

10. Through a diameter of the base of a right circular cone are drawn two planes cutting the cone in parabolas. Show that the volume included between those planes and the vertex is $\frac{4}{3\pi}$ of the volume of the cone.

11. Solve the equations:

$$\text{(i)} \ (x+y)\frac{dy}{dx} = 2x,$$

$$\text{(ii)} \ \frac{d^4y}{dx^4} + 2a^2\frac{d^2y}{dx^2} + a^4y = x^2\sin ax,$$

$$\text{(iii)} \ x\frac{d^2y}{dx^2} + \tfrac{1}{2}\frac{dy}{dx} - y = 0.$$

12. Show how to solve the simultaneous equations

$$f_1(D)x + \phi_1(D)y = \psi_1(t),$$
$$f_2(D)x + \phi_2(D)y = \psi_2(t);$$

where $f_1$, $f_2$, $\phi_1$, $\phi_2$ are rational, algebraic, integral functions with constant coefficients and $D \equiv \frac{d}{dt}$.

Solve

$$\frac{dx}{dt} + \frac{dy}{dt} - x - y = e^t,$$

$$\frac{d^2x}{dt^2} + \frac{dy}{dt} = e^t.$$

13. Find the differential equation of a curve such that the length of the radius of curvature at any point is equal to the length of the normal intercepted between that point and the axis of $x$.

Integrate the equation and find the two curves which have this property.

# NATURAL PHILOSOPHY.

## FIRST PAPER—THREE HOURS.

(*Candidates are not expected to do more than about two thirds of this paper.*)

1. Define the Central Axis of a system of forces and show how it may be constructed.

Forces acting on a rigid body are represented in magnitude and line of action by the edges $OA$, $OB$, $OC$, $AB$, $BC$, $CA$ of a tetrahedron $OABC$, the edges meeting at $O$ being mutually perpendicular. Show that the equations of the Central Axis are

$$\frac{x}{a}-\frac{b^2-c^2}{a^2+b^2+c^2}=\frac{y}{b}-\frac{c^2-a^2}{a^2+b^2+c^2}=\frac{z}{c}-\frac{a^2-b^2}{a^2+b^2+c^2}$$

where $a$, $b$, $c$ are the lengths of the edges passing through $O$; show also that the moment of the corresponding couple is

$$\frac{3abc}{\sqrt{a^2+b^2+c^2}}.$$

2. Show that the Centre of Inertia of the smaller portion of a solid sphere, radius $a$, cut off by a plane distant $b$ from the centre is distant $\frac{3}{4}\frac{(a+b)^2}{2a+b}$ from the centre.

From a hemisphere radius $a$, a cap is cut off by a plane distant $b$ from the centre and inclined at an angle $\theta$ to the base of the hemisphere. Show that the Centre of Inertia of the remainder is distant

$$\frac{3\sin\theta\,(a^2-b^2)^2}{4b\,(3a^2-b^2)}$$

from the axis of the hemisphere, and find its distance from the base of the hemisphere.

3. Discuss the motion of a particle in a smooth plane tube rotating in its plane.

A particle is at rest within a smooth circular tube radius $a$; the tube begins to turn with uniform angular velocity $\omega$ about the opposite end of the diameter through the particle. Show that the pressure on the tube will vanish when the particle has described an angle $\cos^{-1}$ [illegible] about the fixed point relative to the tube, and that its distance from this point at time $t$ is $r=2a\operatorname{sech}\omega t$.

4. Define the hodograph, and show that the resultant acceleration in the path is equal in magnitude and direction to the velocity in the hodograph.

A smooth parabolic tube is placed with its axis vertical and vertex upwards, and a particle is allowed to slide down it, starting from rest at the vertex; show that the hodograph of the motion is the curve

$$r=2\sqrt{ag}\tan\theta,$$

where $4a$ is the latus-rectum of the parabola.

5. A particle moving under a central attraction varying inversely as the square of the distance is projected from a given point, in a given direction, with a given velocity. Prove that the orbit is a conic and determine its nature from the initial conditions.

If the particle be projected with velocity $V$ from a point distant $R$ from the origin, show that the periodic time is

$$\frac{2\pi}{\sqrt{\mu}}\left\{\frac{2}{R}-\frac{V^2}{\mu}\right\}^{-\frac{3}{2}},$$

where $\frac{\mu}{r^2}$ is the acceleration at distance $r$.

6. A uniform chain of weight $W$ is laid out straight on a smooth table at right angles to the edge, with one end just hanging over; if the height of the table above the floor be equal to the length of the chain, show that the pressure on the floor increases from $W$ to $4W$ while the chain is being piled up, and then suddenly sinks to $W$.

7. Show that the Moment of Inertia of a lamina about an axis perpendicular to its plane is equal to the sum of the Moments of Inertia about any two rectangular axes in its plane, drawn through the foot of the former axis.

Find the Moment of Inertia of the area bounded by the lemniscate $r^2 = a^2 \cos 2\theta$

(i) about its axis,

(ii) about either of the tangents to the curve at the origin.

8. Establish from D'Alembert's principle the equations of motion of a rigid body in three dimensions, and reduce them to their simplest form for the case of a plane body moving in its own plane.

A uniform rod hangs vertically supported by two strings attached to one end of it, each making an angle $\alpha$ with the vertical. If one of the strings be cut show that the tension of the other is suddenly altered in the ratio

$$2\cos^2\alpha : 1 + 3\sin^2\alpha.$$

9. Prove the principle of Conservation of Energy for a rigid body moving in one plane.

Three equal uniform rods $AB$, $BC$, $CD$ of length $a$ are freely jointed at $B$ and $C$ and suspended from points $A$, $D$ in the same horizontal line at a distance $a$ apart. Show that when the rods move in a vertical plane the length of the simple equivalent pendulum is $\frac{5a}{6}$.

10. Prove that if a set of impulses act on a rigid body the change in the kinetic energy is equal to the sum of the products obtained by multiplying each impulse by the arithmetical mean of the initial and final component velocities of its point of application, in its own direction.

A short uniform rod falling without rotation strikes a smooth horizontal plane; show that the loss of kinetic energy due to the impact is to the kinetic energy of the rod at first in the ratio

$$1 - e^2 : 1 + 3\cos^2\alpha,$$

where $e$ is the ratio of the normal velocity of the lower extremity of the rod after impact to its normal velocity before impact, and $\alpha$ is the inclination of the rod to the vertical before impact.

11. Prove Poisson's characteristic equation

$$\frac{\partial^2 V}{\partial x^2}+\frac{\partial^2 V}{\partial y^2}+\frac{\partial^2 V}{\partial z^2}=-4\pi k\rho$$

for the potential of attracting matter and find its special form for the case of symmetry about a point.

Hence, or otherwise, show that, were the earth a sphere with concentric spherical strata, the attraction on a particle just within the surface would be greater or less than the attraction just without, according as the surface density is less or greater than $\frac{2}{3}$ of the mean density.

12. Explain how the Method of Images is applied to the solution of hydrodynamical problems.

Show that the image of a source outside a cylinder, the motion being in two dimensions, is an equal source at the inverse point together with an equal sink at the centre of the cylinder.

13. Investigate the propagation of waves in a liquid of uniform depth $h$ under the action of gravity and show that

$$U^2=\frac{g\lambda}{2\pi}\tanh\frac{2\pi h}{\lambda},$$

where $U$ is the velocity of propagation and $\lambda$ the wave length.

Verify that for waves propagated along a straight canal of uniform section, whose sides are two planes inclined at an angle $\pi/4$ to the horizon, a possible velocity potential is

$$\phi=A\cosh my\cosh mz\cos\sqrt{2}(mx-nt),$$

where $Ox$ is the bottom line of the canal and $Oy$ is vertical, and $h$ is the greatest depth of the canal.

Find the velocity of propagation in terms of the wave length.

## SECOND PAPER—THREE HOURS.

(*Do not attempt more than NINE questions.*)

1. Show that in the Atwood's machine if the weight of the thread is taken into account as well as the inertia of the wheelwork the equation of motion is

$$\ddot{x}=\lambda_1 x++\lambda_2,$$

where

$$\lambda_1=2g\rho/(2M+m+l\rho+\mu),\quad \lambda_2=(m-l\rho)g/(2M+m+l\rho+\mu),$$

in which $\rho$ denotes the mass of the thread per unit length, $l$ the whole length of the thread, $M$ the mass of each box, $m$ that of the added rider, $\mu$ the inertia equivalent of the wheelwork, and $x$ is measured from the pulley on the falling side. Hence show that the distance $x$ moved through from rest in any time is given by

$$x=\frac{\lambda_2}{\lambda_1}\{\cosh(t\sqrt{\lambda_1})-1\}.$$

What are the practical objections to the suggestion often made that Atwood's machine may be used for the determination of $g$.

2. In the uniplanar motion of a rigid body a curve fixed in the body rolls on a curve fixed in a plane of motion. If $\omega$ be the angular velocity of rolling, $r$ and $r'$ the radii of the curves at the point of contact show that the acceleration of the body-point which coincides with the instantaneous axis is $\omega^2 rr'/(r \pm r')$ according as the curvatures are opposite or similarly directed. Hence find the acceleration at a point $P$ of the body, and the curvature of the path described by $P$.

A bicycle is driven forward with uniform speed on a horizontal plane while the front or steering wheel is held so that its trace on the plane makes a constant angle $\theta$ with the trace of the driving wheel. Prove that the tracks of the wheels on the plane are concentric circles the radii of which are $l \cot \theta$, $l/\sin \theta$ where $l$ is the constant distance along the trace of the hind wheel produced, from the point of contact with the ground to the point of intersection with the trace of the steering wheel.

3. A rigid body of mass $m$ symmetrical about an axis $OC$ moves under gravity with the point $O$ fixed. If the inclination of $OC$ to the vertical $OZ$ be $\theta$, the angle the vertical plane $ZOC$ makes with a fixed vertical plane be $\psi$, the angular velocity with which the body is turning about $OC$ relatively to the plane $ZOC$ be $\omega$, the moments of inertia about $OC$ and about any axis through $O$ at right angles to $OC$ be $C$ and $A$ respectively, and the height of the centroid above $O$ be $h$, prove that the equation of energy for the body is

$$\tfrac{1}{2} C(\omega + \dot{\psi} \cos \theta)^2 + \tfrac{1}{2} A(\dot{\psi}^2 \sin^2\theta + \theta^2) + mgh \sin \theta = E,$$

where $E$ is a constant.

Prove also that the quantities

$$C(\omega + \dot{\psi} \cos \theta), \quad A\dot{\psi} \sin^2\theta + C(\omega + \dot{\psi} \cos \theta) \cos \theta$$

are constant during the motion.

4. From the values of the kinetic and potential energy given in Question 3, or by any other method, prove that the $\theta$-equation of motion of the body is

$$A\ddot{\theta} - \{(A\dot{\psi} \cos \theta - Cn)\dot{\psi} + mgh\} \sin \theta = 0,$$

where $n$ denotes the constant value of $\omega + \dot{\psi} \cos \theta$.

A gyrostat the flywheel of which is rapidly rotating is pivoted by its case on a horizontal axis at right angles to the axis of rotation of the flywheel and passing approximately through the centroid, and the former axis is carried round in azimuth with constant angular volocity $\dot{\psi}$. Prove that if the axis of the flywheel be vertical the equilibrium is stable or unstable according as $\dot{\psi}$ has the same sign as the spin $n$ or the opposite sign. Show also that the time of a small oscillation of the gyrostat about the stable position is approximately $2\pi\sqrt{A/Cn\dot{\psi}}$.

5. State exactly the physical difference between the motion of a fluid for which there exists a velocity potential and the motion for which no such potential exists.

Show that if a fluid move about an axis so that the stream lines are circles a velocity potential will exist if the velocity be inversely proportional to the distance from the axis. Hence prove by Bernoulli's theorem or otherwise that if the axis be vertical and the fluid be acted on by gravity the equation of a surface of equal pressure is

$$r^2 z = c,$$

where r is the distance of a point from the axis, z its distance from a fixed horizontal plane, and c a constant.

6. Establish the differential equations of continuity of a compressible fluid, and find the special form adopted in the case of an incompressible liquid in which a right circular cylinder is moving with uniform velocity in a direction at right angles to its axis.

Find a solution of the equation for this case and calculate the resultant velocity of the fluid at a point at distance r from the axis and specify its direction. Find the kinetic energy of the fluid and prove that if the density of the cylinder is equal to that of the fluid the kinetic energy of the fluid motion is equal to that of the cylinder.

7. A sphere of radius a and density ρ is held just completely immersed in a liquid of greater density $\rho'$ contained in a cylindrical vessel of radius $R$ and is then gently raised until just clear of the water. Prove that the work gained is

$$\frac{4}{3}\pi g a^3 (\rho'-\rho)\left(1 - \frac{3}{2}\,[illegible]\right)$$

8. Prove Fourier's equation

$$f(x) = \frac{1}{\pi}\int_0^\infty du \int_{-\infty}^{\infty} f(\lambda)\cos u(\lambda - x)\,d\lambda$$

for the expression of an arbitrary function $f(x)$, stating as far as you can precisely the conditions to be fulfilled by $f(x)$ in order that the equation may be legitimate.

9. Establish the equation of the propagation of heat in a thin uniform bar which is cooling to the surroundings. Show that this may be reduced to the case of a bar covered with varnish impermeable by heat.

If the initial distribution of temperature in a thin infinitely long bar covered with impermeable varnish be symmetrical about a point $O$ of the bar, and be expressed by $F(x)$ where $x$ is the distance of the point considered from $O$, prove that the temperature after time $t$ at any point is given by the equation

$$\frac{2}{\pi}\int_0^\infty e^{-\kappa u^2 t}\cos ux\,du \int_0^\infty F(\lambda)\cos u\lambda\,d\lambda.$$

10. Establish the equation for the variable flow of heat in two dimensions, that is

$$\frac{dv}{dt} = \kappa\left(\frac{d^2v}{dx^2} + \frac{d^2v}{dy^2}\right).$$

A rectangular plate bounded by the lines $x = 0$, $y = 0$, $x = a$, $y = b$ has an initial distribution of temperature given by

$$v = A\sin\frac{\pi x}{a}\sin\frac{\pi y}{b}.$$

The edges are kept constantly at zero temperature and the plane faces of the plate are impermeable by heat. Find the temperature at any point and time, and show that very close to any corner of the plate the lines of equal temperature and of flow of heat are orthogonal systems of rectangular hyperbolas.

Show that the heat lost by the plate across the edges up to time $t$ is

$$\frac{4s\rho A\,ab}{\pi^2}\left\{1 - e^{-\kappa\left(\frac{1}{a^2}+\frac{1}{b^2}\right)\pi^2 t}\right\},$$

where $\rho$ is the mass of the plate per unit area, and $s$ the specific heat of the material.

11. An electric condenser consists of two long co-axial conducting cylinders. The external radius of the inner cylinder is $r_1$, the inner radius of the outer cylinder is $r_2$, the potential of the inner cylinder is $V$, that of the outer zero, and the space between is filled with air. Find the potential at any point between the surfaces at a distance from either end great in comparison with $r_1$ or $r_2$, and prove that the capacity of the inner cylinder per unit length where it is well under cover of the outer cylinder is $1/\{2\log(r_1/r_2)\}$.

An absolute electrometer has been constructed by placing the cylinders with their common axis vertical, and suspending the inner cylinder from one end of the beam of a balance, so that the lower end of this cylinder is well within, and its upper end far above the upper end of, the outer conductor, and determining the downward pull $F$ produced by the electrification. Prove that

$$V = 2\sqrt{F\log\frac{r_1}{r_2}}.$$

12. State Kirchhoff's rules for a network of linear conductors carrying steady currents. Use them to find the independent equations of currents for the six-wire arrangement of the Wheatstone Bridge.

By the principle of energy (explaining the meaning of all quantities introduced) find the generalised form of Kirchhoff's so-called "second law," for currents in a system of conductors subject to electromotive forces both impressed and inductive, and possessing electrostatic capacity (*e.g.* of condensers inserted) and resistance.

13. The circuit of an alternating machine (e.m.f. $= E_0 \sin nt$) contains a condenser of capacity $C$ and a coil of resistance $R$ and inductance $L$, in series with the armature; prove that the current at time $t$ is given by the equation

$$\gamma = \frac{CnE_0\sin(nt-\theta)}{\{C^2n^2R^2 + (Cn^2L-1)^2\}^{\frac{1}{2}}}$$

and give the value of $\theta$. Show that the effect of capacity is to counteract that of inductance, and explain the action by a dynamical analogy.

Find the difference of potential between the plates of the condenser at time $t$, and explain the apparent paradox that this may be greater than $E_0\sin(nt-\theta)$.

11. The ratio $c$ of the electromagnetic unit of quantity to the electrostatic unit has the dimensions of velocity. Show that this ratio is a certain definite velocity. Find its value and give illustrations.

By means of the equations of the electromagnetic field show that the value of $c$ found is the velocity of propagation of an electromagnetic disturbance in air.

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## *D.—GROUP OF ENGLISH (LANGUAGE, LITERATURE, AND BRITISH HISTORY).*

### FIRST PAPER—Two Hours.

### ANGLO-SAXON.

1. Translate:

(*a*) Ǫnd ðeah sindon mǫnige suiðe suiðe to ðreageanne, ðonne hie selfe nyllað ongietan hiera scylda, ðæt hi ðonne gehieren ðreagende of ðæs lariowes muðe hu micle byrðenne hie habbað on hiera scyldum ðonne hie willað him selfum ðæt yfel ðæt hie ðurhtugon to suiðe gelihtan, ðæt hie ðonne ondrædén for ðæs lareowes ðreaunga ðæt hie hit him gehefegigen. Ðæt ðonne bið ðæs recceres ryht ðæt he ðurh ða stemne his lariowdomes ætiewe ðæt wuldor ðæs uplican eðles ǫnd hu mǫniga digla costunga ðæs ealdan feondes lutigeað on ðys andweardan life he eac geopenige, ǫnd ðæt he his hieremǫnna yfelu to hnesclice forberan ne sceal, ac mid miclum andan ǫnd reðnesse him stiere, ðylæs he sie scyldig ealra hira scylda, ðonne him hiera na ne ofðyncð.

(*b*) Hū blindlice mǫnege þeoda sprecað ymb þone cristendom, þæt hit nu wyrse sie þonne hit ær wære, þæt hie nellað geþencean oþþe ne cunnon, hwær hit gewurde ǣr þǣm cristendome, þæt ǣnegu þeod oþre hiere willum friþes bǣde, buton hiere þearf wære; oþþe hwær ǣnegu þeod æt oþerre mehte frið begietan oððe mid golde oððe mid seolfre oþþe mid ænige fēo, buton he him underþiedd wære. Ac siþþan Crist geboren wæs, þe ealles middangeardes is sibb ǫnd frið, nales þæt án mǫn*n* hie mehten aliesan mid feo of þeowdome, ac eac þeoda him betwēonum buton þēowdome gesibbsume wæron. Hu wene gē hwelc sibbe þā weras hæfden ǣr þæm cristendome, þonne heora wif swa mǫnigfeald yfel donde wæron on þiosan middangearde?

(*c*) Eornostlice ne breac se árleasa Herodes his cynerices mid langsumere gesundfulnysse, ac búton yldinge him becom

sēo godcundlīce wracu, þe hine mid męnigfealdre yrmðe fordyde, and eac geswutelode on hwilcum suslum hē mōste æfter forðsīðe ēcelīce cwylmian. Hine gelǣhte unāsęcgendlic ādl: his līchama barn wiðūtan mid langsumere hǣtan, and he eal innan samod tōswollen wæs and toborsten. Him wæs mętes micel lust, ac ðeah mid nānum ætum his gyfernysse gefyllan ne mihte. He hriðode, and ęgeslīce hwēos, and angsumlīce siccetunga teah, swā þæt hé earfoðlīce orðian mihte. Wæter-sēocnys hine oferēode beneoðan þām gyrdle tō ðan swiðe þæt his gesceapu maðan wēollon, and stincende āttor singāllīce of ðām toswollenum fōtum flēow. Unāberendlic gyhða oferēode ealne ðone līchaman, and ungelȳfendlic toblāwennys his innoð geswęncte. Him stód stincende stēam of ðām mūðe, swā þæt earfoðlīce ǣnig lǣce him mihte genēalǣcan. Fela ðæra lǣca hé acwealde: cwæð þæt hí hine gehǣlan mihton, and noldon.

(*d*) Ofer*ēo*de þā *æ*þelinga bearn
*st*eap *st*ānhliðo, *st*īge nearwe,
*ę*nge ānpaðas, *u*ncūð gelād,
*n*ēowle *n*æssas, *n*icorhūsa fela.
Hē *f*ēara sum be*f*oran gęngde
*w*īsra mǫnna *w*ǫng scēawian,
oþ þæt he *f*ǣringa *f*yrgenbēamas
ofer *h*ārne stān *h*leonian funde,
*w*ynlēasne *w*udu; *w*æter under stōd,
*d*rēorig and ge*d*rēfed. *D*ęnum eallum wæs,
*w*inum Scyldinga, *w*eorce on mōde,
tō ge*þ*olianne ðęgne męnegum,
*o*ncȳð *eo*rla gehwǣm, syððan *Æ*schęres
on þām *h*olmclife *h*afelan mētton.
*F*lōd blōde wēol (*f*olc tō sǣgon)
*h*ātan *h*eolfre. *H*orn stundum sǫng
*f*ūslic *f*[yrd]lēoð.

(*e*) *O*ffa gemǣlde, *æ*scholt āsceōc:
'Hwæt þū, *Æ*lfwine, hafast *ea*lle gemanode,
þegenas tō þearfe: nū ūre þēoden līð,
*eo*rl on *eo*rðan, *ū*s is *ea*llum þearf
þæt ūre *ǣ*ghwylc *ō*þerne bylde
*w*igan tō *w*īge, þā hwīle þe hē *w*ǣpen mæge
*h*abban and *h*ealdan, *h*eardne mēce,

gār and gōd swurd. Ūs *G*odric hæfð,
*ea*rh *O*ddan bearn, *ea*lle beswicene:
wende þæs for *m*oni *m*an, þā hē on *m*eare rād,
on *w*lancan þām *w*icge, þæt wǣre hit ūre hlāford;
for þan wearð hēr on *f*elda *f*olc totwǣmed,
scyldburh tōbrocen. *A*brēoðe his angin,
þæt hē hēr swā *m*anigne *m*an āflymde!

(*b*) Ne gelȳfe ic mē nū þæs *l*ēohtes furðor, þæs þe hē him
þęnceð *l*ange nīotan,
þæs *ē*ades mid his engla cræfte; ne magon wē þæt on
*a*ldre gewinnan,
þæt wē mihtiges Godes mōd onwǣcen. Uton oðwendan
hit nū *m*ęnna bearnum,
þæt *h*eofonrīce, nū wē hit habban ne mōton, gedōn þæt
hīe his *h*yldo forlǣten,
þæt hīe þæt onwęndon, þæt hē mid his *w*orde bebēad:
þonne wyrð hē him *w*rāð on mōde,
āhwet hīe from his *h*yldo; þonne sculon hīe þās *h*elle
sēcan
and þās grimman grundas. Þonne mōton wē hīe ūs tō
giongrum habban,
*f*īra bearn on þissum *f*æstum clęmmum. Onginnað nū
ymb þā *f*yrde þencean.

(*c*) [illegible]
ðæt hie [illegible]
tō hiora *s*elfra *s*āula hiorde
*G*od, [illegible]
ðurh *s*ibbe lufan *s*eocan scoldan.
[illegible] manna cynnes,
fram *b*lōdgete and *b*ealanīðum;
*G*od lifigende, [illegible]
*h*ēlo and *h*elpend, *h*iofenrīces weard:
ðonne *l*ange [illegible]
for ðīnes selfes [illegible].

2. What are the chief characteristics of Old English lyrical poetry? Illustrate your answer by reference to poems in the *Reader*.

3. Explain 'mutation' and 'gradation' in reference to Anglo-Saxon philology, and exemplify from the passage in Question 1.

4. Give the meaning and derivation of the following: wanhȳdig, wǣlrāp, ungesǣlig, unīeþelīce, þēowincel, tōlicgan, strǣt, selerǣdend, gesceaft, hancred, fǣringa, dugup.

### SECOND PAPER—Two Hours.

## MIDDLE ENGLISH.

1. Translate:

(*a*) Ac ȝief ȝé habbeð und*er*stande þ*at* we ȝíu er séde. eter gate me his scýft. *and* þer me hi to ȝesceodeð. Si gate þ*at* is elces mannes endedeíe. þ*at* he stepð ut of þese life into þan oðre. Ac we sede ȝew. þ*at* ȝief he frend were me sceolde ȝief hi*m* his mórȝe mete þ*at* he þe bet mihte abide þan*e* more mete. Swa hit is here. þ*at* se gode man þe godes lufe hað ȝefolged to [h]is ende cu*m*þ. witerlice wið-ut uuantruce þer cumeð þe hali engles hi*m* tó. *and* ȝéf [he] hað ahte uniwasse oðer hit w[u]rð ȝewasse iþer pine of þe deaðe þe he her þáleð. oðer efter mid eðelice lette. *and* þ*an* lat me þa sawle to merchestowe. þ*at* is se morȝemete si blisse þe he hað an þar sawle. þat wite ȝe wel. nan halege nað his fulle blisse er he underfó adomes deíe his licame. þ*at* w[u]rð se fulle mete. þa*n* se mann mid sawle *and* mid licame und*er*fangð sicernesse of écer blisse.

(*b*) Leofemen nu ȝe habbeð iherd of þis putte þe bitacni*n*ge þe ic habbe embe ispeken. *and* þe bitacninge of þe p*r*oph*et*e. *and* þ*et* þe rapes bitacneð. *and* hwat þa claðes bi-tacneð þe þe rapes weren mide biwu*n*den. Ihereð nuðe whulche þinges wunieð in þisse putte. þer wunieð fower cunnes wurmes inne. þet fordoð nuðe al þeos midelerd. þer wunieð in-ne faȝe neddren. *and* beoreð atter u*n*der heore tunge. Blake tadden *and* habbeð atter uppon heore heorte. ȝeluwe froggen. *and* crabben.]

(*c*) Icc seȝȝde guw nu littlær her
biforenn o þiss lare
Summ del off—þatt and waȝherifft
was spredd fra wah to waȝhe,
Biforenn an allterr þatt wass
innresst i þeȝȝre minnstre,
Amang þe Judewisshe follc,
biforenn Cristess come;
& ec icc seȝȝde þatt itt wass
þær henngedd i þatt hírne,

Forr þatt itt hidenn shollde þær
all þatt tær wass wiþþinnenn
Fra læredd & fra læwedd follc,
annd all fra þeȝȝre sihhþe,
Wiþþutenn þatt te bisscopp sellf
wiþþ blod & ec wiþþ recless
Þær shollde þeowwtenn o þe ȝet
ann siþe & all himm ane;
& ec icc seȝȝde littlær her
biforenn o þiss lare,
Þatt bi þatt allterr stodenn a
þatt follkess haliȝdomess,
Þatt wærenn inn an arrke þær
wel & wurrþlike ȝemedd.

(*d*) And tu þ*at* al þe world fore mihte drede *and* duere; was unwreste folk of world to hoker lahter. A þ*at* luuelike bodi þ*at* henges swa rewli swa blodi *and* swa kalde. A hu schal i nu liue for nu deies mi lef for me up o þe deore rode? Henges dun his heaued *and* sendes his sawle. Bote ne þinche ha*m* nawt ȝet þ*at* he is ful pinet. ne þ*at* rewfule deade bodie nulen ha nawt friðie. Bringen forð longis wið þ*at* b*ra*de scharpe sp*er*e. He þurles his side cleues tat herte. *and* cumes flowinde ut of þ*at* wide wunde. þe blod þ*at* bohte. þe wat*er* þ*at* te world wesch of sake *and* of sunne.

(*e*) He ȝal & hupte & drouȝ aȝe · & makede g*r*islich ber*e*,
He nolde for al his biȝete · þ*a*t he hadde icome þer*e*.
Mid his tonge he snytte hir*e* nose · & tuengde hir*e* sore,
For hit was wiþ-inne þe nyȝte · he ne miȝte iseo nomore.
Þe schrewe was glad & bliþe ynouȝ · þo he was out of his honde,
He fleȝ & g*ra*dde bi þe lifte · þ*a*t me hurde in-to al þe londe:
'Out! what haþ þe calewe ido · what haþ þe calewe ido!'
In þe cont*ra*i me hurde wide · hou þe schrewe g*ra*dde so.
As god þe schrewe hadde ibeo · atom, ysnyt his nose,
He ne hiȝede no more þiderward · to hele hi*m* of þe pose.

(*f*) Ac water is kendeliche cheld,
Þaȝ hit be warmd of fere;
Þer-fore me mey cristni þer-inne,
In whaut time falþe a ȝere

Of yse;
So mey me nauȝt in ewe ardau*n*t,
Þat neþ no wateris wyse.

Al-so me may inne sealte se
Cristny wel mitte beste;
And eke inne oþere sealte watere,
Bote me in to moche keste
Of sealte;
For ȝef þat water his kende lest,
Þat cristning stant te-tealte.

2. Discuss the dialect of *any three* of the above passages, and indicate roughly the geographical limits of the English dialects in the thirteenth and fourteenth centuries.

3. Give some account of the matter, form, and author of the following poems: The Brut, The Bruce, The Ormulum.

4. Discuss any foreign elements which made their way into the language during the period of Middle English.

### THIRD PAPER –Two Hours.

## HISTORY OF LITERATURE (1350-1660).

### I.

1. Sketch the plan of the *Canterbury Tales*, and describe the tales not in verse.

2. Characterise Chaucer as a narrative poet, and outline either the Clerk's or the Squire's tale.

3. Give a brief summary of Langland's *Vision concerning Piers the Plowman*, and contrast the poet's method and aims with those of Chaucer.

4. Mention the approximate dates of Henryson, Dunbar, and Gawain Douglas; name their chief works; and state what precedents they set.

5. Give an account of the miscellaneous prose and the romances of the fifteenth century, and estimate their importance in the progress of literature.

6. Give brief biographical notices of Sir Thomas Wyatt and the Earl of Surrey, and describe their work as pioneers.

7. Estimate the influence of Caxton's labours on the literature of his country.

8. Write an account of the principal sixteenth century translations of the Classics.

9. Describe the work and influence of Sir Thomas More or John Lyly.

10. What foreign and what native influences are most conspicuous in Spenser's poetical work?

FOURTH PAPER—Two Hours.

## HISTORY OF LITERATURE (1350-1660).

### II.

1. Give some account of the writings of Nash *or* of Greene.

2. What marks of decadence do you find in the drama of the time of James I.?

3. Describe the poetic school of Donne.

4. Write a brief life of Bacon, *or* of Hooker, showing how events of the life affected the literary work.

5. Give an account either of Hobbes's *Leviathan*, *or* of Burton's *Anatomy of Melancholy*.

6. Compare the Caroline lyrical writers with the Elizabethan.

7. Estimate the influence of the chief contemporary foreign literatures on English literature from 1558 to 1660.

8. Write notes on *two* of the following: Ben Jonson's conception of comedy; Crashaw's religious poems; the "character" writings of the seventeenth century; the *War of the Stages*; *Pseudodoxia Epidemica*.

9. Write a brief life of Milton, with special reference to his poetic development.

ALTERNATIVE THIRD PAPER—Two Hours.

## HISTORY OF LITERATURE (1660 AND ONWARDS).

### I.

1. Distinguish generally the poetic aims and style of the Restoration poets from those of the Elizabethan age.

2. Estimate the importance of Dryden's critical prefaces and of his *Essay of Dramatic Poesy*.

3. State the motive of *Hudibras*, characterise its poetical qualities, and criticise its success as a *tour de force*.

4. Give an account of Locke, and discuss his qualities as a prose writer and the value of his contributions to social and political literature.

5. Shew that essay-writing, biography, and history received careful and artistic treatment from the middle to the end of the seventeenth century.

6. Compare Pope with Dryden as a satirist and a master of poetical form. Give some account of the *Epistle to Dr. Arbuthnot*, and any two of the *Imitations of Horace*.

7. Describe the controversy begun by Jeremy Collier in his *Short View*. What is the value of the apologies and defences that have been advanced on behalf of the dramatists of the close of the seventeenth century?

8. Write a brief history of Sentimentalism in the eighteenth century.

*Or*, Describe the activities and influence of the Scriblerus Club.

9. Name and describe any works between 1700 and 1770 that seem to you to be Romantic in temper and tendency.

10. Who were the principal English letter-writers of the eighteenth century? Characterise the styles of any three of them.

### ALTERNATIVE FOURTH PAPER—Two Hours.

## HISTORY OF LITERATURE (1660 AND ONWARDS).

### II.

1. Describe the chief merits and defects of Dr. Johnson as a critic, and give examples.

2. Sketch the literary society of Edinburgh during the first thirty years of Scott's life.

3. Distinguish the novel from the romance, and give some account of the principal non-romantic novelists of the close of the eighteenth and beginning of the nineteenth century.

4. Compare the historical writing of the nineteenth with that of the eighteenth century. How did the Romantic Revival affect the writing of history?

5. Who were the principal sonnet writers of the Romantic Revival? Compare their treatments of the form.

6. Give some account of *two* of the following: Byron's controversy with Southey; Charles Lamb's plays; The *Noctes Ambrosianae*; the Reviews of *Endymion*; Shelley's Letters.

7. Discuss the comparative influence of Wordsworth and Keats on the poetry of the nineteenth century.

8. Give an account of the works and prose style of *one* of the following: Carlyle; Newman; Walter Pater.

9. Write critical and descriptive notes on *three* of the following: *The House of Life*; *Atalanta in Calydon*; *The Angel in the House*; *Wuthering Heights*; *Foc'sle Yarns*; *Unto This Last*; *Friendship's Garland*; *Sonnets from the Portuguese*.

### FIFTH PAPER—Two Hours.

## SHAKESPEARE.

### I.

1. Give an account of the Shakespeare Folios and Quartos.

2. Mention passages, in the Poems and Sonnets only, illustrative of Shakespeare's appreciation of external Nature.

3. Who may W. H. have been; and what is the most reasonable theory as to the composition of the Sonnets? Refer to recent authorities.

4. State the evidence on which students determine the chronological order of Shakespeare's writings, and exemplify "end stopt" and "run on" verse and "weak endings" and "feminine endings."

5. Criticise the theory that Shakespeare the man is depicted in Jaques, Macbeth, Hamlet, and Prospero.

6. Illustrate from *King Henry IV.* and the connected plays the dexterous art with which histories are transmuted into dramas.

7. Hazlitt considered *Antony and Cleopatra* the finest of Shakespeare's historical plays. Defend or controvert this view.

8. The passions as displayed in Shakespeare "do not at first stand displayed to us in all their height, as is the case with so many tragic poets who, in the language of Lessing, are thorough masters of the legal style of love. He paints, in a most inimitable manner, the gradual progress from the first origin." Illustrate this by reference to any three plays.

## SIXTH PAPER—TWO HOURS.

## SHAKESPEARE.

### II.

1. Mention the chief seventeenth century authorities for our knowledge of the life of Shakespeare.

2. Discuss *one* of the following:

   (i.) Shakespeare's attitude to Puritanism.
   (ii.) His knowledge of foreign languages.
   (iii.) His allusions to the stage and acting.

3. Classify Shakespeare's characters of women, giving the principal traits of each type, with examples.

4. "In modern tragedy character is fate." Discuss this dictum with reference to Shakespeare's tragedies.

5. "Or sweetest Shakespeare, Fancy's child,
Warble his native wood-notes wild."

What did Milton mean by this? Do you think it embodies a false criticism?

6. Has Shakespeare been successful and convincing in portraying a purely evil character?

7. Which of Shakespeare's plays are commonly grouped together under the title "Romances"? Explain the fitness of the title, and the common characteristics of the plays.

8. What evidence is there of Shakespeare's collaboration with other playwrights?

## SEVENTH, EIGHTH, NINTH, TENTH, ELEVENTH, TWELFTH PAPERS.

On selected authors, the following is a specimen :

### TENNYSON.

1. Compare the work done by Tennyson before 1850 with his later work. Which do you prefer?

2. Give some account of *three* of the following :—*The Vision of Sin* ; *Lucretius* ; *The Goose* ; *The Gleam* ; *Sea Dreams* ; *Despair*.

3. Discuss *one* of the following :
   (i.) The influence of Keats on Tennyson.
   (ii.) Tennyson's poems in dialect.
   (iii.) Tennyson's patriotism.

4. Compare Tennyson's treatment of humble life, in such poems as *Dora* and *Enoch Arden*, with Wordsworth's treatment of similar subjects.

5. Illustrate Tennyson's care in revision, excision, suppression, from the changes he made in *The Princess* and *A Dream of Fair Women*. Mention some of the early poems that he suppressed.

6. Give some account of Tennyson's opinions, as they may be gathered from his poems, on—

"Women's rights" ;
The Crimean War ;
Vivisection.

7. Discuss Tennyson's knowledge of science, and the use he makes of his knowledge in poetry.

8. *In Memoriam* has been described as the record of a struggle between weak faith and timid doubt. Criticise this description.

9. Describe some of Tennyson's poems in the form of dramatic monologues, and compare them with Browning's.

10. Show how an allegorical meaning was gradually introduced by Tennyson into his *Idylls of the King*.

## THIRTEENTH PAPER—Two Hours.

## BRITISH HISTORY, 1714-1815.

### I.

1. Point out the weakness of Walpole in his system of foreign alliances, 1721-1741.

2. Write a life of Carteret, and illustrate the causes of his failure as a statesman.

3. Trace the subsidence in Scotland of the discontent with the Union.

4. Do you consider that at any time between 1774 and 1781 a settlement might have been arrived at without the recognition of American independence.

5. Discuss the financial reforms of the younger Pitt.

6. Illustrate the relations between the House of Commons and the people in the eighteenth century.

7. Show how the French Revolution remodelled English political parties.

8. Account for the shift in the balance of wealth and population from the south to the north of England in the second half of the eighteenth century.

## FOURTEENTH PAPER.

## BRITISH HISTORY, 1714-1815.

### II.

1. Comment on the following passages :

(*a*) His Majesty came indeed to the inheritance of a mighty war ; but victorious in every part of the globe, peace was always in his power, not to negociate, but to dictate.

(*b*) The King is the representative of the people ; so are the Lords ; so are the Judges. They all are trustees for the people as well as the Commons.

(*c*) After this proceeding, I suppose that no man can be so weak as to think that the Crown is limited to any settled allowance whatsoever.

(*d*) This epistle was not the letter of Lord Hillsborough solely ; though he held the official pen. It was the letter of the noble lord upon the floor, and of all the King's then Ministers who (with, I think, the exception of two only) are his ministers at this hour.

(*e*) They say that the opposition made in Parliament to the Stamp Act at the time of its passing encouraged the Americans to their resistance.

(*f*) Such is the strength with which population shoots in that part of the world that, state the numbers as high as we will, whilst the dispute continues, the exaggeration ends.

(*g*) I hear that they have sold nearly as many of Blackstone's commentaries in America as in England.

(*h*) But let it once be understood that your government may be one thing, and their privileges another ; that these two things may exist without any mutual relation : the cement is gone ; the cohesion is loosened ; and everything hastens to decay and dissolution.

2. Give Burke's opinion on the following historical characters :—John Wilkes, the Earl of Chatham, Charles Townshend, Necker.

3. Explain briefly the following :—Double Cabinet, Act of Navigation, County Palatine of Chester, Justicia of Arragon, Tiers Etat, the two Academies of France, the Anabaptists of Munster, Serbonian bog, Assignats.

4. How does Burke account for the American love of liberty?

5. State and criticise Burke's argument for the hereditary character of the Crown of Great Britain.

6. Illustrate Burke's application of general principles to political questions.

7. Explain the allusions in the following passages:

(*a*) I never desire to be thought a better Whig than Lord Somers.

(*b*) This sort of discourse does well enough with the lamppost for its second.

(*c*) This people refused to change their law in remote ages from respect to the infallibility of popes.

(*d*) Cornwall elects as many members as all Scotland. But is Cornwall better taken care of than Scotland?

(*e*) Officers, it seems, there are to be, whose chief qualification must be temper and patience. They are to manage their troops by electioneering arts. They must bear themselves as candidates not as commanders.

(*f*) They took an old huge full-bottomed periwig out of the wardrobe of the antiquated frippery of Louis XIV. to cover the premature baldness of the national assembly.

## *E.—GROUP OF MODERN LANGUAGES.*

## FRENCH LANGUAGE AND LITERATURE.

### FIRST PAPER—THREE HOURS.

1. Traduire en Anglais:

### L'ŒUVRE DE PUVIS DE CHAVANNES.

Dans le livre plein de moelle où il disserte en philosophe, en érudit et en poète sur l'art et la nature, M. Victor Cherbuliez consacre deux chapitres à raconter comment "l'art, étant la nature débrouillée et concentrée, nous *délivre* à la fois de tout ce qui troublait la netteté de nos contemplations et des fatigues d'une attention dispersée."

Si cette définition est juste, comme je crois, et assez compréhensive pour convenir aux œuvres d'art les plus différentes, elle s'applique surtout à celles qui ont une intention et une destination plus spécialement décoratives . . . Nous dirions volontiers au peintre à qui nous livrons, pour les animer, de grandes surfaces murales: "Surtout pas trop de monde, pas trop de choses,—pas trop de bruit. Nous avons besoin de repos, d'harmonie et de sérénité; nous en avons besoin aujourd'hui plus que jamais, entrainés et roulés que nous sommes dans un torrent de vie affairée et bruyante. Evoquez pour nous de graves et tranquilles visions: que nous y sentions la nature présente dans une bienfaisante contemplation; que le rythme du monde y devienne visible à nos yeux fatigués; simplifiez, résumez, synthétisez . . . Faites nous flotter à fleur de muraille des images apaisées et comme lointaines, où nos rêveries trouvent un aliment, nos désirs d'eurythmie les plus intimes et les plus inassouvis, une satisfaction."

Puvis de Chavannes—qui en doute?—a été suscité par la Providence pour répondre à ce besoin de beaucoup d'hommes de son temps.

André Michel (*Notes sur l'Art Moderne*).

2. Traduire en Anglais :

Cependant, sur le bord du bassin, en silence,
L'infante tient toujours sa rose gravement,
Et, doux ange aux yeux bleus, la baise par moment.
Soudain un souffle d'air, une de ces haleines
Que le soir frémissant jette à travers les plaines,
Tumultueux zéphyr effleurant l'horizon,
Trouble l'eau, fait frémir les joncs, met un frisson
Dans les lointains massifs de myrte et d'asphodèle,
Vient jusqu'au bel enfant tranquille, et d'un coup d'aile,
Rapide, et secouant même l'arbre voisin,
Effeuille brusquement la fleur dans le bassin,
Et l'infante n'a plus dans la main qu'une épine.

Victor Hugo (*La Légende des Siècles*).

3. Translate into French :

The genius of the great poet seeks repose in the expression of itself, and finds it at last in style, which is the establishment of a perfect mutual understanding between the worker and his material. The secondary intellect, on the other hand, seeks for excitement in expression, and stimulates itself into mannerism, which is the wilful obstruction of self, as style is its unconscious abnegation. No poet of the first class has ever left a school, because his imagination is incommunicable; while, just as surely as the thermometer tells of the neighbourhood of an iceberg, you may detect the presence of a genius of the second class in any generation by the influence of his mannerism, for that, being an artificial thing, is capable of reproduction. Dante, Shakspeare, Goethe, left no heirs either to the form or mode of their expression; while Milton, Sterne, and Wordsworth left behind them whole regiments uniformed with all their external characteristics.

J. R. Lowell (*The English Poets*).

4. Translate into French :

Wisdom and Spirit of the universe!
Thou Soul that art the eternity of thought,
That givest to forms and images a breath
And everlasting motion, not in vain
By day or star-light thus from my first dawn
Of childhood didst thou intertwine for me
The passions that build up our human soul;
Not with the mean and vulgar works of man,
But with high objects, with enduring things—
With life and nature—purifying thus
The elements of feeling and of thought,
And sanctifying, by such discipline,
Both pain and fear, until we recognize
A grandeur in the beatings of the heart.

Wordsworth (*The Prelude*, Book I.).

## SECOND PAPER—Three Hours.

1. Traduire en français moderne :

Quant l'emperedre vait querre son nevot,
De tantes erbes el pret trovat les flors
Qui sont vermeilles del sanc de noz barons !
Pitiet en at, ne puet muder ne plort.
Dessoz dous erbres parvenuz est a ment :
Les cols Rodlant conut en treis pedrons :
Sour l'erbe vert veit gesir son nevot ;
Nen est merveille se Charles an irer.
Descent a piet, alez i est plein cors,
Si preut lo comte entre ses braz amsdous :
Sour lui se pasmet, tant par est angoissos.
Li emperedre de pasmeisons revint.
Naime li dus e li coms Acelins,
Jofreiz d'Anjou e ses frere Tedris
Prenent lo rei, sil drecent soz un pin.
Guardet a terre, veit son nevot gesir ;
Tant dolcement a regreter lo prist :
"Amis Rodlanz, de tei ait Dieu mercit !
Onques nuls om tel chevalier ne vit
Por grant bataille joster a defenir.
La meie onor est tornede a declin !"
Charles se pasmet, ne s'en puet astenir.

Chanson de Roland.

2. A grammatical and metrical study of the lines just quoted above.

3. A grammatical and metrical study of the following passage :

### DE L'ELECTION DE SON SEPULCHRE.

Antres, et vous fontaines,
De ces roches hautaines,
Qui tombez contre-bas
D'un glissant pas :

Et vous forests, et ondes
Par ces prez vagabondes,
Et vous rives et bois
Oyez ma vois.

Quand le ciel et mon heure
Jugeront que je meure,
Ravi du beau séjour
Du commun jour,

Je défens qu'on ne rompe
Le marbre pour la pompe
De vouloir mon tombeau
Bastir plus beau.

Je veuil, j'euten, j'ordonne
Qu'un sepulchre on me donne,
Non près des rois levé
N'y d'or gravé,

Mais en cette isle verte
Où la course entrouverte
Du Loir autour coulant
Est accolant,

Là où Braye s'amie
D'une eau non endormie
Murmure à l'environ
De son giron.

RONSARD (*Odes*, IV. iv.)

### THIRD PAPER—THREE HOURS.

### COMPOSITIONS FRANÇAISES.

Traiter : 1°. L'un des sujets suivants :

(*a*) *Les Châtiments.* Le rôle de l'histoire et celui de la poésie dans ce recueil.

(*b*) L'œuvre épique de Victor Hugo et ses caractéristiques.

2°. L'un de ceux-ci :

(*a*) Indiquer brièvement le rôle de la religion dans la vie et dans l'œuvre de Pascal.

(*b*) La Bruyère, critique du XVIIe siècle français.

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## GERMAN LANGUAGE AND LITERATURE.

### FIRST PAPER—TWO HOURS.

I. Translate :

(*a*) Rings um das mannigfaltig gegliederte Binnenmeer, das tief einſchneidend in die Erdfeſte den größten Buſen des Oceans bildet und bald durch Inſeln oder vorſpringende Landfeſten verengt, bald wieder ſich in beträchtlicher Breite ausdehnend die drei Theile der alten Welt ſcheidet und verbindet, ſiedelten in alten Zeiten Völkerſtämme ſich an, welche, ethnographiſch und ſprachgeſchichtlich betrachtet verſchiedenen Racen angehörig, hiſtoriſch ein Ganzes ausmachen ein Völkerſyſtem, deſſen Civiliſationsgeſchichte, wenn gleich ſie in ihren Anfängen anknüpft an einen andern Geſichts- und Geſchichtskreis, dennoch,

wie die Stämme den Ufern des Mittelmeers ſich nähern, ſie alle in ſich aufgenommen und einen eigentümlichen Gang in Gründung, Blüthe und Untergang verfolgt hat. Dieſe Culturgeſchichte der Umwohner des Mittelmeers, die man nicht paſſend als die Geſchichte der alten Welt zu bezeichnen pflegt, führt in drei großen Entwicklungsſtadien uns die Geſchichte vor der Aegypter, der Hellenen und der Italiker, welche an den öſtlichen Culturkreis anknüpfen durch die Phoeniker, das Volk der Vermittlung.

MOMMSEN.

(*b*) Auch gehen die Viſch inn den Lachn
Gſotten, Braten, Gſulzt vnd pachn
Vnd gehn bey dem geſtat gar nahen,
Laſſen ſich mit den henden fahen.
Auch fliegen vmb (muͤget jr glaubn)
Gebraten Huͤner, Genß vnd Taubn.
Wer ſie nicht facht vnd iſt ſo faul,
Dem fliegen ſie ſelbs in das maul.

*Hans Sachs.*

(*c*) Aber wie oft hats ſich erwiſen
Gantz feindtlich mit den Vberguͤſſen?
Auch, wan ſie jrer Gmahl wol trauten,
Was dorffts, das ſie vil Daͤmm vmbbauten?
Deshalb ein andre weiß iſt gwiß,
Zůzaͤmen die Waſſer vnd Fluͤß,
Das ſie geſchlacht vnd folgig werden
Vnd die leut faͤrtigen on bſchwerden.
Welchs iſt dieſelb?

*Fischart.*

(*d*) Darnach ließ der Teufel ſich an, als wann der Waldt voller Teuffel were, die mitten vnd neben deß D. Fauſti Circkel her bald darnach erſchienen, als wann nichts denn lauter Wägen da weren, darnach in vier Ecken im Wald giengen in Circkel zu, als Boltzen vnd Stralen, dann bald ein großer Buchſenſchuß, darauff ein Helle erſchiene, Vnd ſind im Wald viel löblicher Inſtrument, Muſic vnnd Geſäng gehört worden.

FAUSTBUCH.

## II. GRAMMAR AND PHILOLOGY.

(*Answer* SIX *of the following questions.*)

1. (*a*) Classify the Germanic languages, showing what dialects come under the East-Germanic, the North-Germanic, and the West-Germanic groups respectively.

(*b*) In what respect does Gothic differ from the other members of the Germanic group, and wherein lies its importance for the study of German or English?

2. Give the historical evolution of Modern German, and point out the philological features which are peculiar to each period.

3. (*a*) Explain fully, with examples, what is meant by *Umlaut*, *Rückumlaut*, *Ablaut*.

(*b*) What is the origin of the *Umlaut* sign?

(*c*) Discuss the principal theories with reference to *Ablaut*.

4. Give the etymology and the formation of: *Harfner*, *Sonnenschein*, *Aberwitz*, *bekanntermassen*, *traun*, *ausserhalb*, *anwesend*.

5. State the main principles by which nouns are derived in German.

6. Comment on the romanised letters in: *G*o*ld*, *g*ü*lden*; *H*a*nd*, *be*h*ende*; *Berg*, *Geb*i*rge*; *s*e*nden*, *s*a*ndte*; *gedei*h*en*, *gedie*g*en*; *ho*ch, *hö*h*er*.

7. Discuss the syntactical peculiarities in the following sentences:

(*a*) *Belieben der Herr diesen Seckel zu erproben.* (*b*) *Er ist geliebt von Reich und Arm.* (*c*) *Von allen, so da kamen.* (*d*) *Der Schlüssel hat sich gefunden.* (*e*) *Es freut uns diese Nachricht.* (*f*) *Geht mir, nichts weiter davon.* (*g*) *Es ist ein pudelnärrisch Tier.* (*h*) *Da Kommt des Wegs geritten ein schmucker Edelknecht.*

8. Give the origin and illustrate the force of the following prepositions: *kraft*, *laut*, *willen*, *nebst*.

## SECOND PAPER—Three Hours.

I. Translate into German :—

(*a*) Poetry produces an illusion on the eye of the mind, as a magic lantern produces an illusion on the eye of the body. And, as the magic lantern acts best in a dark room, poetry effects its purpose most completely in a dark age. As the light of knowledge breaks in upon its exhibitions, as the outlines of certainty become more and more definite, and the shades of probability more and more distinct, the hues and lineaments of the phantoms which the poet calls up grow fainter and fainter. We cannot unite the incompatible advantages of reality and deception, the clear discernment of truth and the exquisite enjoyment of fiction. He who, in an enlightened and literary society, aspires to be a great poet, must first become a little child.—*Macaulay.*

(*b*) Major Dobbin was exceedingly pleased when, as he was superintending the arrangement of Jos's new house, which the major insisted should be very handsome and comfortable, the cart arrived from Brompton, bringing the trunks and bandboxes of the emigrants from that village, and with them the old piano. Amelia would have it up in the sitting-room, a neat little apartment on the second floor, adjoining her father's chamber. When the men appeared then bearing this old music box, and Amelia gave orders that it should be placed in the chamber aforesaid, Dobbin was quite elated. "I'm glad you've kept it," he said in a very sentimental manner. "I was afraid you didn't care about it." "I value it more than anything else in the world," said Amelia. "*Do you?*" cried the major.

(*c*) An essay in German on one of the following subjects :—

Mein Lieblingsstudium.
Bedeutung der internationalen Ausstellungen für die Kultur.
"Wer fremde Sprachen nicht kennt, weiss nichts von seiner eigenen."—(*Goethe.*)

## II. LITERATURE.

(*Answer* SIX *of the following questions either in English or German.*)

1. Geben Sie einen kurzen Ueberblick ueber die althochdeutsche Litteratur.

2. Der Hauptgegenstand und die Grundformen der Lyrik in der mittelhochdeutschen Dichtung.

3. Die wichtigsten Charakterzüge der deutschen Litteratur im Zeitalter der Reformation.

4. Versuch einer Parallele zwischen Hans Sachs und Johann Fischart.

5. Inwiefern verdient Opitz den Namen des Begründers der neuen deutschen Poesie.

6. Welche Richtung verfolgte die romantische Dichterschule.

7. Geben Sie eine Skizze von Klopstock.

8. Welches ist die Einteilung und der geschichtliche Hintergrund von Goethe's "Hermann und Dorothea."

9. Schildern Sie die Sturm und Drangperiode in ihren Hauptvertretern.

## THIRD PAPER—THREE HOURS.

### I.

1. Worauf beruht die Magussage?

2. Schildern Sie den Gegensatz im Charakter der Magussage vorchristlicher und christlicher Zeit.

3. Der geschichtliche Faust nach den Berichten seiner Zeitgenossen.

4. Wie entwickelte sich die Faustsage zu einem deutschen Drama?

5. Skizzieren Sie Lessings Faustfragment.

6. Schildern Sie die Hauptmotive im zweiten Teil des Goetheschen Faust.

7. Welche sinnbildliche Bedeutung hat die Vermählung der Helena mit Faust?

8. Das Thema des Prologs und seine Bedeutung für das Faustdrama.

### II.

1. Comment on, but do not translate, the following passages. Write notes on the words underlined.

(*a*) Ihr bringt mit euch die Bilder froher Tage,
Und manche liebe Schatten ſteigen auf;
Gleich einer alten, halbverklungnen Sage,
Kommt erſte Liebe und Freundſchaft mit herauf.

(*b*) Bei hellem Tage, ſchon vor vieren.

(*c*) Oft wenn es erſt durch Jahre durchgedrungen,
Erſcheint es in vollendeter Geſtalt.

(*d*) Und thu' nicht mehr in Worten kramen.

(*e*) Wir gehen hinaus aufs Jägerhaus.

(*f*) Für ſolche halbe Höllenbrut
Iſt Salomonis Schlüſſel gut.

(*g*) Salamander ſoll glühen
Undene ſich winden
Sylphe verſchwinden
Kobold ſich mühen.

(*h*) Ein fahrender Scolaſt? Der Caſus macht mich lachen.

2. Explain the terms: *Molche*, *Maser*, *Wurme*, *Nostradamus*, *Drudenfuss*, *Tand*, *Burgemeister*, *genung*, *Hans Liederlich*, *Brimborium*.

**III. Translate:**

(*a*) Viel Irrthum und ein Fünkchen Wahrheit
So wird der beſte Trank gebraut,
Der alle Welt erquickt und auferbaut.

(*b*) Ihr fühlet nicht, wie ſchlecht ein ſolches Handwerk ſei!
Wie wenig das dem echten Künſtler zieme!
Der ſaubern Herren Pfuſcherei
Iſt, merk ich, ſchon bei euch Maxime.

(*c*) Da iſt's denn wahrlich oft ein Jammer!
Man läuft euch bei dem erſten Blick davon.
Ein Kehrichtfaß und eine Rumpelkammer
Und höchſtens eine „Haupt und Staatsaktion"
Mit trefflichen pragmatiſchen Maximen,
Wie ſie den Puppen wohl im Munde ziemen.

(*d*) Mein Auge war aufs hohe Meer gezogen;
Es ſchwoll empor, ſich in ſich ſelbſt zu thürmen,
Dann ließ es nach und ſchüttelte die Wogen,
Des flachen Ufers Breite zu beſtürmen.
Und das verdroß mich; wie der Uebermuth
Den freien Geiſt, der alle Rechte ſchätzt,
Durch leidenſchaftlich aufgeregtes Blut
Ins Mißbehagen des Gefühls verſetzt.

FAUST.

## FOURTH PAPER—THREE HOURS.

(*Answer* SIX *of the following questions.*)

### I.

1. Geben Sie ein Bild von Schillers Lebensgang bis zu seinem Freundschaftsbund mit Goethe.

2. Zeichnen Sie den Entwicklungsgang der Freiheitsidee in den "Räubern," im "Don Carlos," und im "Wilhelm Tell."

3. (*a*) Die Motivirung des Todesurteils in "Maria Stuart."
(*b*) Kennzeichnen Sie die Gegensätze im Charakter Marias und Elisabeths.

4. Inwiefern bildet *Don Carlos* einen Wendepunkt in Schillers künstlerischer Entwicklung?

5. Welche Bedeutung hatte die Herausgabe der *Horen* für Schiller und die deutsche Litteratur?

6. Schillers Auffassung und Behandlung *der Geschichte*.

7 Schillers ästhetischer Standpunkt und seine Auffassung von der dramatischen Kunst.

8. Geben Sie ein Bild von Schillers *Wallenstein Trilogie* nach Form und Inhalt.

9. Eine allgemeine Uebersicht über Schillers *philosophische Schriften* nebst Erklärung der Grundgedanken einer derselben.

## II.

Translate, with short notes, one of the following passages, and explain the situation:

(*a*) Betrogner Thor! Verlorner! In der Jungfrau Hand
Biſt du gefallen, die verderbliche, woraus
Nicht Rettung noch Erlöſung mehr zu hoffen iſt.
Wenn dich das Unglück in des Krokodils Gewalt
Gegeben oder des gefleckten Tigers Klaun,
Wenn du der Löwenmutter junge Brut geraubt,
Du könnteſt Mitleid finden und Barmherzigkeit,
Doch tödtlich iſt's, der Jungfrau zu begegnen.
Denn dem Geiſterreich, dem ſtrengen, unverletzlichen,
Verpflichtet mich der furchtbar bindende Vertrag,
Mit dem Schwert zu tödten alles Lebende, das mir
Der Schlachten Gott verhängnißvoll entgegenſchickt.

*Die Jungfrau von Orleans.*

(*b*) Wenn wir's verſchieben bis zum Feſt des Herrn,
Dann bringt's die Sitte mit, daß alle Saſſen
Dem Vogt Geſchenke bringen auf das Schloß.
So können zehen Männer oder zwölf
Sich unverdächtig in der Burg verſammeln,
Die führen heimlich ſpitz'ge Eiſen mit,
Die man geſchwind kann an die Stäbe ſtecken,
Denn Niemand kommt mit Waffen in die Burg.

Zunächſt im Wald hält dann der große Haufe,
Und, wenn die Andern glücklich ſich des Thors
Ermächtiget, ſo wird ein Horn geblaſen,
Und jene brechen aus dem Hinterhalt.
So wird das Schloß mit leichter Arbeit unſer.

*Wilhelm Tell.*

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## *F.—GROUP OF ECONOMIC SCIENCE.*

## POLITICAL ECONOMY.

### FIRST PAPER—THREE HOURS.

(*Candidates are not required to answer all the questions.*)

1. Is there any antagonism, apparent or real, between Trade Unionism and (1) Co-operation, (2) Profit Sharing?

2. "Too much insistence has been laid on the fact that the earnings of every agent of production come from, and are for the time mainly governed by, the value of the product which it takes part in producing, its earnings being so far governed on the same principle as the rent of land" (*Marshall*). What is the allusion and what is Marshall's reply?

3. In what sense, or with what modifications, is the expression Survival of the Fittest applicable as regards modern industry? Does Trade Unionism make for or hinder such a survival?

4. Giffen once said that, if Great Britain lost all her foreign trade, it would be a most measurable and by no means a fatal injury. What do you say to this?

5. What was the relation of Adam Smith (1) to the Physiocrats, (2) to the economic ideas of his time?

### SECOND PAPER—THREE HOURS.

(*Candidates may, if they choose, answer some of the questions very briefly and give detailed treatment to No.* 6.)

1. In what taxes is the principle of Progression recognised?

2. "Landowners should bear their share of local taxation." Discuss.

3. What are the arguments advanced against municipal housing of the poor?

4. Discuss some of the current proposals for meeting the extra war expenditure—say, by direct taxation, indirect taxation, or borrowing.

5. What effect did the Bank Act of 1844 (England) and the Bank Act of 1845 (Scotland) have on the development of banking in the two countries respectively?

6. "Manifestly we ought to adopt the same general view of equity in dealing with both kinds of taxation (imperial and local)" (*Sidgwick*). How far is this carried out in our actual taxation? Can you reconcile this general view of equity with the Aristotelian Justice.

## MORAL PHILOSOPHY.

### FIRST PAPER—THREE HOURS.

1. State and criticise Aristotle's view of the relation of the practical and contemplative life.

2. What influence had Plato on Aristotle's political philosophy? Indicate more particularly wherein his teaching diverges from that of the *Republic*.

3. Is Spinoza's ethical theory egoistic? Discuss this question with special reference to his 'self-sustaining impulse.'

4. What is meant by the *formalism* of Kant's ethical theory? State and discuss Hegel's criticism of it.

5. Green finds a "circle" in morality. Explain this statement and discuss the possibility of a definition of the moral end.

6. Compare Bentham's Utilitarianism with that of J. S. Mill.

7. Is wrong doing voluntary? Discuss this with reference to the views of Plato and Kant.

### SECOND PAPER—THREE HOURS.

1. Does morality involve knowledge of the absolute?

2. Examine the distinction usually made between the relative and the absolute. Is this distinction also relative?

3. "Ethics, aesthetics, and religion have each their own particular data." Examine this statement and indicate the view of the nature of knowledge which it implies.

4. Compare the views of J. S. Mill and Spencer as to the bearing of law upon individual freedom, and criticise them.

5. State and discuss Austin's view of the nature of political Sovereignty.

6. What in your view is the relation between the intellectual and emotional elements in man? Illustrate your answer by reference to the doctrines of Spinoza and Kant.

7. How far is it true that the defects of Plato's ethical and political theories can be traced to his metaphysical dualism?

## ECONOMICS AND MORAL PHILOSOPHY.

### JOINT PAPER—THREE HOURS.

1. "Once we divest ourselves of the idea that equality of income is the ideal, and accept the principle that, in a world comparatively so poor, a man must pay for his footing and justify his right to be here at all, there emerges something curiously like a rough justice in the present distribution." Is there any reference here to Aristotle's Justice?

2. "Liberty, then, throughout is the Being Ourselves, and the fullest condition of liberty is that in which we are ourselves most completely." "The State is necessarily Force." How do you reconcile these two statements?

3. Discuss the right of a State to punish.

4. What is the paradox of Self Government?

5. "Philosophy, in order to find the whole must assume the whole, and its appearance of process is therefore specious." Discuss this statement.

6. Contrast the views of freedom held by Kant and Hegel.

7. Discuss the relation of Intelligence to the Will. Can "the Good" be employed as a criterion of truth?

8. Indicate some of the main views that have been held as to the nature of pleasure. What is its place in the moral life?

## III.—FOR DEGREE OF B.Sc.

### *A.—IN PURE SCIENCE.*

### FIRST EXAMINATION.

Mathematics—See pp. 497—500.

Natural Philosophy—See pp. 500—505.

Chemistry—See p. 571.

Botany—See p. 572.

Zoology—See p. 572.

### FINAL EXAMINATION.

Mathematics—See pp. 516—520.

Natural Philosophy—See pp. 521—527

## ASTRONOMY.

### FIRST PAPER—Three Hours.

1. (*a*) Where and at what time of the year would you look for Fomalhaut (R.A. $23h.$, Declination $-30°$).

(*b*) How can the declination of two stars, the latitude of the celestial pole, and the constant of refraction be found? Derive the formulae which determine these quantities.

(*c*) Considering the celestial sphere with the stars attached to it stationary, draw a diagram of the sphere with the mean ecliptic and mean equator and their poles at two epochs, 1897 and 113 B.C. Also add the true position of the equator for the same day in 1897.

2. (*a*) Derive the formulae which determine the Greenwich mean time when the centre of the sun as raised by refraction is on the Glasgow horizon.

(*b*) The length of the tropical year is 365·2422 mean solar days and 366·2422 sidereal days. Why is the fraction exactly the same?

(*c*) Define the sidereal time at mean noon, and state how this quantity is calculated from the mean longitude of the sun at a fixed date, and the tropical (why not the sidereal) mean motion of the sun in a mean solar day.

3. (*a*) Give the reason, with the aid of a diagram, why in the relation: hour-angle = sidereal time − right ascension, the right ascension must be measured from the true vernal point and not from the mean vernal point.

(*b*) The moon's node passed the vernal point in Oct., 1894, and completes a revolution in retrograde motion in 18 years 7 months. Find the range of declination of the moon during a month for Oct., 1894, and January, 1904.

Obliquity of ecliptic = 23°·5; inclination of the moon's orbit = 5°·0.

(*c*) Show by a diagram that the longitude on the earth is the difference of local time and Greenwich time, whether mean time, or apparent solar time or sidereal time.

4. (*a*) It is required to calculate the azimuth of a star from an observed zenith distance, the known latitude and the known declination of the star. In what great circle should the observation be made so that errors of observation have the least influence on the azimuth.

(*b*) The latitude is wanted from sextant observations of the sun. How would you proceed, and what reductions would you apply to the observations?

(*c*) The brightness of a variable star is of the 2nd magnitude, but at regular intervals its brightness is for a short time of the 3rd magnitude. Assume that a dark body moves round the luminous star in a plane which contains the line of sight and that therefore the luminous star is partly eclipsed at regular intervals. Derive the ratio of the diameters of these two bodies.

5. (*a*) The annual precession in right ascension (α) and declination (δ) are determined by $\frac{d\alpha}{dt} = m + n \sin\alpha \tan\delta$, $\frac{d\delta}{dt} = n \cos\alpha$; α, δ, *m*, and *n* being functions of time. Prove that the total precession from one epoch to another, with regard to terms of the second order, equals the annual precession which corresponds to the mean of the two dates multiplied by the interval of time.

(*b*) The moon's apparent zenith-distance and its time of transit have been observed on the meridian. Enumerate the various corrections which must be applied so as to reduce these quantities to the centre of the earth, and to the mean equinox at the beginning of the year.

(*c*) Derive the fundamental formula of aberration and draw in a diagram of the celestial sphere the spherical triangles which give the effect of aberration on the right ascension and declination.

6. (*a*) Explain how the major axis and the eccentricity of the earth can be found.

(*b*) What would be the earth's orbit, which is assumed to be circular, if its velocity were suddenly reduced to one-half? Give the length of the year in the new orbit and state in what part of the orbit the earth would be.

(*c*) Define the mean sun and show that the difference of the right-ascensions of the true sun and of the mean sun consists of two periodical points, the one depending on the eccentricity of the orbit, the other on the obliquity of the ecliptic.

## SECOND PAPER—THREE HOURS.

1. (*a*) Find the rectangular coordinates of a planet with reference to the equator, $X$ axis in direction of vernal point, from the radius vector $r$, the angular distance $u$ of the planet from the node on the ecliptic, node and inclination of the orbit, and the obliquity of the ecliptic.

(*b*) Prove that the centre of inertia of $n$ attracting bodies moves in a straight line at uniform velocity.

2. (*a*) A table of the function $\int_0^T e^{at} \sin bt\, e^{-c \sec z} dt$ is wanted for $T = 1, 2, 3$, etc., hours, $t$ designates the hour-angle and $z$ the zenith-distance of the sun. Transform the integral so that the rules of Mechanical Quadrature can be applied, and give the quantities which must be calculated.

(*b*) Derive a formula of interpolation which contains the successive differences above and below a horizontal line.

3. Derive the moments of the couples produced by the attraction of the moon on the spheroidal earth. Give the reasons why the system of coordinates is most advantageously adjusted with reference to the principal axes of inertia of the earth, why the $X$ axis may be placed in the direction of the vernal point, and why the vernal point must be the true and not the mean vernal point.

4. Derive the $X$ components of the force of attraction of a homogeneous ellipsoid on an anterior point, and show that a layer contained between two ellipsoids of equal eccentricity has no action on an interior point.

5. Explain the fundamental idea of the theory of variation of Constants and prove that an increase of mass of the central body does not change the parameter of the elliptic orbit.

6. Let a comet be observed three times at equal intervals of time. Prove with the aid of diagrams that the ratio of the first and third geocentric distance can be expressed by known quantities.

7. (*a*) Let $r$, $\lambda$, $\beta$, be the radius vector, the longitude, and latitude of a planet. Find (1) The differential equations of motion from Lagrange's equation; (2) the canonic equations; (3) Hamilton's partial differential equation of the characteristic function.

(*b*) Find Hamilton's characteristic function $S$ for $H\,(qp) = \frac{1}{2m} p^2 = mgq$, and prove that $\beta = \frac{\partial S}{\partial \alpha_1}$ is the integral of the canonic equation.

## SCIENTIFIC CALCULATIONS—THREE WEEKS.

Reduce three observations (not given here) of the Comet 1900*b* to the mean equinox at the beginning of the year, and determine the elements of its orbit.

## PRACTICAL WORK.

1. Observe the transit of stars with the transit instrument, and determine the errors of the instrument and the correction of the sidereal clock.

2. Observe the altitudes of the sun near the meridian with a sextant, and calculate the geographical latitude.

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# CHEMISTRY.

(Two *questions to be attempted from each of the sections* A, B, *and* C, *and* FOUR *from* D.)

### A.

1. Indicate clearly the influence of mass on a chemical reaction taking place (*a*) in a mixture of gases, (*b*) in an aqueous solution. What is the Guldberg-Waage Law?

2. State and criticise the principle of "maximum work" as determining chemical actions.

3. Discuss the stability of chemical compounds in relation to their heats of formation.

### B.

4. Give a brief account of Lithium and a few of its more important compounds.

5. Describe carefully the preparation and properties of the chlorides of sulphur.

6. How would you determine quantitatively any two of the following: (*a*) titanic acid in a fire-clay, (*b*) nickel in steel, (*c*) silver in bullion, (*d*) nitrogen in wheat?

### C.

7. What is meant by a "eutectic alloy"? Illustrate by examples.

8. Describe carefully either of the following with special reference to the chemical principles involved, (*a*) the cyanide process of gold extraction, (*b*) the bessemer process for copper.

9. Discuss the phenomenon of "tempering" in steel, and state any theories with which you are acquainted which may bear on the point.

### D.

10. Describe the preparation, properties, and relationships of ethylene glycol.

11. State the tests by which you would prove the presence of aldehyde groups in a carbon compound.

12. An acid of composition $(CH_2O)_x$ gives the following reactions :
   (i.) It is monobasic and gives a silver salt $C_3H_5O_3 . Ag$.
   (ii.) When heated it yields acrylic acid and water.
   (iii.) On oxidation it breaks down into oxalic and carbonic acids.
   What inference can you draw regarding its structure ?

13. Describe the formation of alizarin from anthracene. What is its formula ?

14. Give a short account of the pyridine bases.

## BOTANY.

(*Only* FIVE *to be attempted.*)

1. Give a general account of the Marattiaceæ.

2. Describe the sporogonium of *Riccia* and of *Anthoceros*, explaining in each case the importance of the type as throwing light on the probable origin of the Sporophyte.

3. Give examples of septation of Sporangia, and discuss the bearing of such facts.

4. Give a general classification of the Algæ.

5. Describe the chief adaptations of plants to meet extremes of drought, and explain fully how each operates.

6. Give a detailed account of the process of fertilisation in Angiosperms, and discuss the question of "double fertilisation."

## PHYSIOLOGY.

### FIRST PAPER—TWO HOURS.

1—4. See p. 574.

### SECOND PAPER—THREE HOURS.

1. Describe what is understood by the mechanism of accommodation, and indicate the experimental methods by which it may be demonstrated.

2. Give an account of the mechanical arrangements of the bones of the middle ear, the special purposes they subserve, and the innervation of all the parts concerned.

3. What are Nissl's bodies or granules ? How may they be demonstrated ? What changes may be observed in these bodies during rest and activity, and what conclusions may be drawn for the observation of these changes ?

4. What evidence may be adduced in support of the view :
   (*a*) That a nerve fibre cannot be easily fatigued ;
and (*b*) That a nerve fibre may possibly conduct in both directions.
Criticise these statements.

## B.—IN ENGINEERING.

## FIRST EXAMINATION.

## MATHEMATICS.

### FIRST PAPER—THREE HOURS.

*(Candidates are not expected to do more than* TEN *questions.)*

1. From one end of a north-and-south base line, 1000 yards long, the summit of a mountain bears N.E., and is at an altitude 35° 14′; from the other end it bears E.N.E. Find the height of the mountain.

2. State and prove De Moivre's Theorem.

Show that

$$\left(\cos\frac{\pi}{2}+i\sin\frac{\pi}{2}\right)\left(\cos\frac{\pi}{2^2}+i\sin\frac{\pi}{2^2}\right)\left(\cos\frac{\pi}{2^3}+i\sin\frac{\pi}{2^3}\right)\ldots \text{ to infinity} = -1.$$

3. Draw two tangents to a parabola from an external point.

A variable tangent to a parabola intersects two fixed tangents in the points $T$ and $T'$; show that the ratio $ST : ST'$ is constant.

4. Find the angle between the two straight lines whose equations are

$$ax + by + c = 0, \quad a'x + b'y + c' = 0;$$

state the conditions that the lines be

(i.) parallel, (ii.) perpendicular.

Draw the straight lines whose equations are

$$3x - 4y + 5 = 0, \quad x - 5y + 8 = 0, \quad 4x + y - 6 = 0,$$

and find the coordinates of the orthocentre of the triangle which they form.

5. Show that the line $y = mx + \frac{a}{m}$ will touch the parabola $y^2 = 4ax$, whatever be the value of $m$. Find in terms of $m$ the coordinates of the point of contact.

If the tangent to the parabola $y^2 = 4ax$ cut the axis in $T$ and the tangent at the vertex in $R$, show that the locus of the middle point of $RT$ is the parabola

$$y^2 + \tfrac{1}{2}ax = 0.$$

6. Find the equation of the normal at any point of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ in terms of the eccentric angle of the point.

If the normal at $P$ cut the major axis in $G$, show that

$$PG = \frac{b}{a}\sqrt{a^2 \sin^2\phi + b^2 \cos^2\phi},$$

where $\phi$ is the eccentric angle at $P$.

Hence prove that if $OK$ be drawn through $O$, the centre of the ellipse, parallel to $PG$ and equal to it in length, the locus of $K$ is the ellipse $a^2x^2 + b^2y^2 = b^4$.

7. Find the equation of the tangent at any point of the hyperbola $xy = c^2$.

The tangent at $P$ cuts the asymptotes in $M$ and $N$ and the parallelogram $OMVN$ is completed. $MV$ cuts the curve in $Q$; prove that $MV = 4MQ$.

8. Differentiate

$$\text{(i.) } Ae^{ax}\cos(bx+c);$$

$$\text{(ii.) } \log\frac{a\sin x + b\cos x}{a\sin x - b\cos x};$$

$$\text{(iii.) } \sin(m\tan^{-1}x).$$

9. Prove Leibnitz's Theorem for finding the $n$th differential coefficient of the product of two functions.

If $y = (x + \sqrt{1+x^2})^m$, show that

$$(1+x^2)\frac{d^2y}{dx^2} + x\frac{dy}{dx} - m^2y = 0,$$

and deduce that

$$(1+x^2)\frac{d^{n+2}y}{dx^{n+2}} + (2n+1)x\frac{d^{n+1}y}{dx^{n+1}x} + (n^2 - m^2)\frac{d^ny}{dx^n} = 0.$$

10. If $\phi = (Ar^n + Br^{-n})\cos n\theta$, show that

$$\frac{\partial^2\phi}{\partial r^2} + \frac{1}{r}\frac{\partial\phi}{\partial r} + \frac{1}{r^2}\frac{\partial^2\phi}{\partial\theta^2} = 0.$$

11. Prove that if the axis of $x$ is a tangent to a curve at the origin, the radius of curvature at that point is $Lt\,.\,\frac{x^2}{2y}$.

Show that the radii of curvature at the origin for the curve

$$x^4 - 3ax^2y + 2a^2y^2 - ay^3 = 0$$

are $a$ and $\frac{a}{2}$.

12. Find the asymptotes of the curve

$$x^3y - xy^3 + 6ax^2y + a^2y - 16a^2x = 0.$$

Show that the origin is a point of inflexion.

13. Integrate

$$\int\frac{d\theta}{1+e\cos\theta},\quad (e<1),\quad \int\sqrt{a^2-x^2}\,dx,\quad \int(a-x)\sqrt{a-2x}\,dx,$$

and evaluate $\int_0^\pi \cos 4x\cos^4 x\,dx.$

14. Show how to find the volume of the surface generated by the revolution of a given curve about an axis in its plane.

Prove that the volume of the cup formed by the revolution of the cycloid $x = a(\theta + \sin\theta)$, $y = a(1-\cos\theta)$ about its axis (*i.e.* $Oy$) is $\pi a^3(\frac{3}{2}\pi^2 - \frac{8}{3})$.

### SECOND PAPER—Three Hours.

1—13. See pp. 498—500.

# NATURAL PHILOSOPHY.

## FIRST PAPER—Three Hours.

*(Candidates are not expected to do more than six questions.)*

1. State and prove Pappus' theorems.

Find the centre of inertia of a quadrant of the ellipse whose semi-axes are $a$ and $b$, and deduce the volume of the spheroid

$$\frac{x^2}{a^2}+\frac{y^2}{b^2}+\frac{z^2}{b^2}=1.$$

2. Show how to reduce a system of forces acting in one plane on a rigid body to a single force acting at any point of the plane and a couple. Deduce the conditions of equilibrium.

Two equal rods connected at one extremity by a smooth joint rest on two smooth pegs in a horizontal line; if the inclination of either rod to the horizontal be $\alpha$, show that

$$\cos\alpha=\sqrt[3]{\frac{a}{l}},$$

where $a$ is the distance between the pegs and $l$ the length of one of the rods.

Find the magnitude and direction of the reaction at the joint.

3. If an effort $P$, whose direction makes an angle $\theta$ with a rough inclined plane, be employed to drag a weight $W$ up the plane, show that

$$P=W\frac{\sin(\alpha+\lambda)}{\cos(\theta-\lambda)},$$

where $\alpha$ is the inclination of the plane to the horizontal and $\lambda$ the angle of friction.

A uniform rod is movable about a hinge at its middle point fixed at the summit of a rough inclined plane. To one end of it a string is attached whose length equals half that of the rod, a weight $W$ resting on the plane being attached to the other extremity of the string. If the inclination of the plane be such that $W$ would just rest on it without support, show that the greatest weight that can be hung from the free end of the rod without disturbing its equilibrium is $W\sin^2 2\alpha$, where $\alpha$ is the inclination of the plane to the horizontal.

4. Two unequal masses are connected by a light string which passes over a smooth fixed pulley; find the acceleration of the system and the stretching force in the string.

A string passing over a smooth fixed pulley is attached at one end to a mass $m_1$ and at the other to a smooth pulley whose mass may be neglected; a second string passes over this pulley and is attached at one end to the ground and at the other to a mass $m_2$; all the hanging portions of string are vertical. Show that if $m_2$ be greater than $\frac{m_1}{2}$, $m_1$ will ascend, and prove that its acceleration will be

$$\frac{2m_2-m_1}{4m_2+m_1}g.$$

5. Show that if a particle slide from rest at any point down the arc of a smooth cycloid whose axis is vertical and vertex downwards, the motion is simple harmonic, and find the time of an oscillation.

Two equal heavy particles oscillate, one on the arc of a smooth semicircle, the other on the arc of a smooth cycloid, the motion in both cases beginning from rest at the highest point. Show that at points at which the tangents to the two paths are parallel, the pressures on the curves are as 3 : 2.

6. A particle moving under a central attraction varying inversely as the square of the distance is projected from a given point, in a given direction, with a given velocity. Prove that the orbit is a conic, and determine its nature from the initial conditions.

If the particle be projected with velocity $V$ from a point distant $R$ from the centre of attraction, show that the periodic time is

$$\frac{2\pi}{\sqrt{\mu}}\left\{\frac{2}{R}-\frac{V^2}{\mu}\right\}^{-\frac{3}{2}},$$

where $\frac{\mu}{r^2}$ is the acceleration at distance $r$.

7. A uniform chain of weight $W$ is laid out straight on a smooth table at right angles to the edge, with one end just hanging over; if the height of the table above the floor be equal to the length of the chain, show that the pressure on the floor increases from $W$ to $4W$ while the chain is being piled up, and then suddenly sinks to $W$.

8. Prove that if an impulse $F$ act on a body and $u_0$, $u_1$ be the velocities of the point of application, resolved in the direction of the force, just before and just after the impulse, then the work done by the impulse is

$$\frac{u+u_1}{2}F.$$

Two masses $m_1$ and $m_2$ are connected by a weightless rod $AB$ and lie on a smooth horizontal table. The rod is struck at right angles to its length by a given impulse $F$ applied at a point $C$; find the velocities of the masses and the kinetic energy; show that the kinetic energy is a minimum if $AC : CB = m^2 : m_1$.

9. Define *work*, *energy*, *power*.

Find an expression for the horse-power transmitted by a belt turning a drum without slipping.

Power is transmitted from one shaft to another by means of a single open belt, 6 inches wide and $\frac{1}{4}$ inch thick, running at a speed of 60 feet per second. If the tension in the loose side of the belt is one-half that in the tight side and a maximum stress of 300 pounds per square inch be allowed, show, neglecting the weight of the belt, that $24\frac{6}{11}$ horse-power may be transmitted.

10. Find the attraction of a uniform thin circular plate on a particle placed at any point of its axis.

If a particle make small oscillations on the axis of a thin lamina bounded by two concentric circles whose radii are $a$ and $b$, show that the period is

$$2\pi\sqrt{\frac{ab(+b)}{2km}},$$

where $m$ is the mass of the lamina.

11. Prove Torricelli's theorem, that, if liquid be allowed to escape by a small orifice from a vessel which is kept full, the velocity of efflux is the same as that which would be acquired by a body falling from rest through a height equal to the depth of the orifice below the surface of the liquid.

12. Show that the surfaces of equal pressure and density of heavy non homogeneous liquid in equilibrium are horizontal planes.

The density of sea water increases in the ratio $k : 1$ ($k = \cdot 000044$) per atmosphere of pressure. Show that at a depth equal to $n$ times the height of the sea water barometer the pressure is equal to $(n + 1)(1 + \frac{1}{2}kn)$ atmospheres.

### SECOND PAPER—Three Hours.

1–16. See pp. 503–505.

CHEMISTRY—See p. 571.

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## FINAL EXAMINATION

## ENGINEERING.

### FIRST PAPER—Two Hours and a Half.

1. In connection with iron and steel processes, explain the meanings you attach to each of the following terms: Haematite Ore; Malleable Cast Iron; Regenerative Furnace; Best Yorkshire Iron; Blister Steel.

2. Sketch roughly to scale a modern blast furnace. Describe its chief features, and the method of working it. How may the blast furnace gases be utilised?

3. Give a brief account of the influences of Silicon and of Phosphorus on the properties of Cast Iron, Wrought Iron, and Mild Steel.

4. Describe the process of "Cementation." Give some account of the properties and uses of the product.

5. State the chief properties of Tin, Zinc, and Lead, and the chief uses to which these metals are put in engineering. For each give the approximate composition of two alloys in which it is present.

6. Compare and contrast the properties of Aluminium with the properties of some of the chief alloys in which it is used.

7. Give a short account of the mode of shrinkage of Timber, and of two processes for its preservation.

8. Find the stress in the material of a Cast Iron Fly wheel, diameter 6 ft., when running at 200 revolutions per minute, neglecting the effect of the arms. Prove the formula you use. Take cast iron at 450 lbs. per cubic foot.

9. Find the load $M$ on the governor shown on the accompanying sheet, using the data there given.

### SECOND PAPER—Two Hours and a Half.

1. Determine by the "Mean Areas," "Mean Heights," and "Prismoidal" methods, the volume of a block of earthwork of 1

chain in length, 24 feet wide at formation surface, side slopes $2\frac{1}{2}$ to 1, and end heights of 12 feet and 22 feet respectively; assuming the ground level in cross-section. Discuss the relative merits of the methods with respect to the probable accuracy for the determination of the total volume of a railway cutting through a hill.

2. What is Traverse Surveying? Describe clearly one method of conducting such a survey, and explain how the work may be checked.

3. Describe with the aid of sketches the box sextant, prove the principle upon which the arc is graduated, and explain for what purposes it may conveniently be used in surveying.

4. Chaining along a line $AD$ being obstructed by a small lake, a triangle $ABC$ is constructed round it, in which $AB = 376$, $BD = 241$, $DC = 154$, and $CA = 452$. Find the length of $AD$.

5. Explain the meaning of the terms: "Error due to curvature," "Error due to refraction," "Datum line," "Bench mark," and "Reduced level," as used in levelling.

In levelling for a section the following readings were taken: 3·76, 5·90, 7·60, 10·86, 2·45, 7·92, 12·63, 4·87, 3·12, 1·90; the instrument being moved between the 4th and 5th readings, and again between the 7th and 8th readings. Enter these notes in the form of a level book, cast it up, and ascertain if the work checks.

6. Distinguish between the **Y** theodolite and transit theodolite, and explain in what respects the differences of construction affect the adjustment and use of the instruments.

7. Two straight reaches of a railway meeting, when produced, in an *inaccessible* point are to be connected by a circular curve of given radius. Explain clearly how you would proceed in setting out the curve, giving all necessary formulae.

8. Explain the reasons for easing off the transition between the straight and circular portions of a railway line, and describe, with the aid of sketches Froude's method, explaining how the length of the curve of transition and the relative location of the "straight" and the circular arc may be fixed.

## THIRD PAPER—Two Hours and a Half.

1. Explain the meaning you attach to each of the following terms: specific heat at constant volume; from and at 212° F.; 120° F. superheat; perfect gas; adiabatic expansion.

2. The analysis of a sample of coal is:

| | |
|---|---|
| Carbon, - - - - - | 82·5 |
| Hydrogen, - - - - | 3·0 |
| Nitrogen, - - - - - | 2·1 |
| Sulphur - - - - - | 0·5 |
| Oxygen, - - - - - | 4·5 |
| Ash, - - - - - - | 3·4 |
| Water, - - - - - | 4·0 |
| | 100·0 |

What weight and what volume of air is necessary per pound for its complete combustion, and what heat would be carried away by the products of combustion if the rise of temperature of the gases is 520° F.?

3. If a pound of a mixture of steam and water containing 0·3 lb. water be expanded, adiabatically, from a pressure of 120 lbs. per sq. in. absolute (temperature 341° F.) down to a pressure of 60 lbs. per sq. in. absolute (temperature 293° F.), what will be the weight and volume of the steam at the end of the expansion?

4. Investigate the efficiency of an ideal steam engine working with complete isothermal condensation on the return stroke, and explain why the efficiency of such a cycle is less than the efficiency of the Carnot cycle.

5. Explain briefly what precautions it is necessary to take in mounting and driving a steam engine indicator, and the errors which may result if these precautions are not taken. Illustrate by sketches the effects produced upon the diagrams by the inertia and friction of the piston and pencil gear and by the inertia of the drum.

6. Show, by aid of diagrams, the loss occasioned by clearance in a steam engine working with compression and incomplete expansion, neglecting thermal effects. Why is the last reservation introduced? What are the advantages of clearance?

7. In a double acting steam engine working against a constant resistance and running at 150 revolutions per minute the mean pressure is 25 lbs. per sq. in., diameter of piston 12 inches, piston rod 2½ inches, stroke 18 inches. It is to be provided with a fly-wheel 6 ft. in diameter. Find the mass of the fly wheel rim if it is such that the greatest amount of energy it gives out or absorbs is one-eighth of the energy per revolution in order to secure that the difference between the maximum and minimum velocities should not be more than 2% of the average.

8. Discuss the advantages of ammonia as compared with air as the working substance for a refrigerating machine.

## FOURTH PAPER—THREE HOURS.

1. Define Young's Modulus, Rigidity Modulus, Poisson's Ratio. Prove the formula $G = \dfrac{m}{2(m+1)}E$.

2. Find the stresses in the sheer legs shown in the accompanying sheet.

3. Prove the formula connecting the bending moment at any section of a beam with the dimensions of the section and the stress in the material. Why and to what extent does the strength of a cast iron beam as determined experimentally differ from that calculated by the ordinary formula?

4. The girder for a crane of 30 ft. span is built of two I section mild steel girders placed side by side and braced together. Each girder is

14 in. deep with web ⅝ in. thick and flanges 6 in. by ⅝ in. Neglecting the effect of the bracing, find the deflection at the centre due to a load of 5 tons supported at the centre.

5. Determine the diameter of a shaft to transmit 100 H.P. at a speed of 150 revolutions per minute, the maximum stress allowed being 4 tons per sq. in. and the maximum torque being one-half greater than the mean torque. Find the maximum twist in the shaft. Prove the formulae you use. Take $G$ as 5000 tons per sq. in.

6. State Gordon's, Hodgkinson's, and Euler's formulae for the strength of columns, explaining the meaning of the symbols. Discuss the applicability of the formulae.

7. A pipe equivalent to 800 ft. long and 4 inches internal diameter runs from a reservoir in which the free water surface level is 100 ft. above the level of the outlet end of the pipe. Find the discharge in gallons per hour when the pipe terminates (*a*) full bore, (*b*) with a 1-inch nozzle. Use Eitelwein's formula $v=100\sqrt{im}$.

8. What are "free" and "forced" vortices? Deduce a formula for the form of the surface of each.

9. Investigate expressions for the power and efficiency of a Scotch turbine (Barker's mill). If the available head is 10 ft., the radius to the centre of the orifices 15 inches, and the combined area of the orifices 6 square inches, determine the power and the efficiency when the velocity of the orifices 6 square inches, determine the power and the efficiency when the velocity of the orifices is that due to the available fall. Neglect friction.

## ENGINEERING DRAWING.

### FIRST PAPER—Three Hours.

1. A cam, revolving at a uniform speed upon a 1″ shaft, is required to raise a tappet, uniformly, to a height of 3″ in two-thirds of a revolution and lower it again, uniformly, during the remainder of the revolution; the line along which the tappet moves being perpendicular to and 1″ distant from the axis of the shaft. Draw the profile of the cam; the diameter of the tappet roller being ½″ and the least thickness of metal round eye of cam being ¾″.

2. Show, by the aid of sketches, how you would solve the following problems:

(*a*) To determine the projections of the lines passing through a given point and making given angles with the planes of projection.

(*b*) To determine the traces of a plane containing a given point and perpendicular to a given line which is neither parallel nor perpendicular to either of the planes of projection.

(*c*) To determine the traces of a plane bisecting the angle between two given, intersecting, oblique planes.

3. A box, 12″ × 6″ × 4″ deep, made of wood 1″ in thickness, has the long and short edges of the bottom inclined to the H.P. at 30° and 45° respectively. Draw the plan and elevation one fourth full size.

4. Draw an isometric projection of the box described above, with a sphere, 3″ in diameter, resting within it and touching two sides. Scale one-fourth full size.

5. In the accompanying figure $ee'$ is the vertex of a cone and $ea$, $e'a'$, the projections of its axis; the vertex angle of the cone being 30°, determine the projections of the cone and the traces of a plane touching it and inclined to the horizontal plane at an angle of 60°.

6. Draw the curves of intersection of the two cylinders shown on the accompanying sheet and the development of the surface of the vertical cylinder.

7. Draw the diagram of stresses and the diagrams of bending moments and shearing forces for the loaded bridge frame shown on the accompanying sheet.

## SECOND PAPER—Three Hours.

1. Draw the curves of spaces for the crank and piston and for the eccentric and slide valve of a steam engine in which the length of the connecting rod is four times the crank radius, and show how to apply them to determine the outside and inside laps of the valve, the angle of advance of the eccentric, and the point of compression; the angle of lead being 15°, the point of cut-off 0·6 of stroke, and point of release 0·95 of stroke. Sketch the probable form of the indicator diagrams, assuming an initial (gauge) pressure of 80 lbs. per sq. in.

2. Design and make fully dimensioned drawings of suitable transverse and longitudinal riveted joints for a boiler having a diam. of 6·5 ft., and subject to a steam pressure (gauge) of 120 lbs. per sq. in.

3. Design and make detailed drawings of one of the following:

(*a*) A cast iron spur wheel having a diameter of 5 feet, and suitable for transmitting 200 horse power at 100 revolutions per minute; the diameter of the eye of the wheel being 6″. The teeth being cycloidal and described by a rolling circle having a diameter of 2½ times the pitch, draw accurately the profile of a tooth to a scale of one third full size.

(*b*) A plate web girder for a clear span of 60 ft. to carry an equivalent uniformly distributed load of two tons per ft. run. About 20 ft. of the middle part of the girder together with plan and transverse and longitudinal sections need only be drawn.

(*c*) A pedestal for a journal 4 inches in diameter and 6 inches in length.

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# GEOLOGY AND MINERALOGY.

## FIRST PAPER—Two Hours.

(Five *questions to be answered.*)

1. Describe the Triassic rocks of Britain. Under what conditions have they been formed?

2. Write a short account of the carboniferous strata of Scotland.

3. How are the following formed: (*a*) Breccia; (*b*) Flint; (*c*) Slate; (*d*) Travertine.

4. Describe: (*a*) Porphyritic granite; (*b*) augite andesite; (*c*) pitchstone.

5. Give a short account of the glacial deposits of Scotland.

6. Define: dip; escarpment; normal fault; inversion; anti-cline.

7. What do you understand by unconformity? Of what geological significance is it? Give examples of great unconformities.

### SECOND PAPER—Two Hours.

(Two *questions to be answered.*)

1. Explain the following symbols:

$$\infty ♀ ;\ mP ;\ QO_2 ;\ \ddot{P}\infty ;\ oP.$$

2. Describe the minerals: hornblende and mica.

3. What do you understand by cleavage in a mineral? Explain how cleavage may enable you to distinguish two minerals otherwise alike: (*a*) in hand specimens; (*b*) under the microscope.

## ELECTRICITY (PURE AND APPLIED).

1. Define surface integral of normal electric induction over a surface, and prove the theorem of Gauss that the surface integral of normal induction over any closed surface drawn in an electric field is $4\pi$ times the quantity of electricity enclosed by the surface.

Find the electric intensity at any point due to a uniformly electrified spherical surface.

2. Describe fully how you would determine the earth's horizontal field intensity at any place, stating the principal corrections, and indicating how they could be made.

3. Give in detail two methods suitable for determining the electrical resistance between the two faces of a plate of glass.

4. State the general principle which underlies all methods for the accurate determination of the electrical resistance of a short piece of very thick wire. Give in detail an account of one such method.

5. Define exactly the self-inductance of a coil and the mutual inductance of two coils. A square 10 cms. in side makes a complete revolution about an axis in its own plane, parallel to one pair of sides, and distant 20 cms. from the nearer side. The surface so generated is wound as closely as possible with fine wire, each turn being in a plane

through the axis of revolution. If $N$ be the whole number of turns of wire find the self-inductance of the coil.

6. How would you determine (1) the self-inductance of a given coil, or (2) the mutual inductance of a pair of coils?

7. A circuit contains an alternating machine, the electromotive force of which varies as a simple harmonic function of the time. Work out an expression for the current in the circuit and the average rate of working, and explain how these could be experimentally determined.

8. The circuit of the alternator in last question contains a solenoid joined in series with a coil of equal resistance wound non-inductively. Find the ratio of the mean squares of the differences of potential between the terminals of the two coils. Work out for the case in which the alternator makes 80 revolutions per second, the resistance of the solenoid being 10 ohms, and its self-inductance ·04 henry.

Define impedance, and contrast the physical effect of impedance with that of true resistance in a circuit.

## *C.—IN AGRICULTURE.*

### FIRST EXAMINATION.

MATHEMATICS—See pp. 497–500.

NATURAL PHILOSOPHY—See pp. [illegible].

CHEMISTRY—See p. 571.

### FINAL EXAMINATION.

GEOLOGY—See First Paper, p. 563.

## AGRICULTURAL BOTANY.

1. Give an account of the methods pursued in the testing of seeds.

2. Describe in detail the external appearances on germination of a grass grain, *e.g.* the oat, and the internal changes which take place during germination.

3. Compare and contrast, both morphologically and physiologically, root-tubercles and mycorrhiza, giving examples of plants in which each occur.

4. Write a short account of *Plasmodiophora*, its nature and mode of life, the damage it causes, and the means of checking it.

5. Give a short tabulated statement of the various methods of cross-pollination in Flowering Plants.

## ECONOMIC SCIENCE.

1—19. See pp. 494, 495.

20. Show that fertility is a relative term.

21. Compare land with labour as a factor in production. How does the long-period calculation affect the price of commodities in the two cases?

22. What are the merits of the English system of land tenure? Compare with peasant proprietorship.

23. Can one, economically, object to the free import of grain? Would a 5 per cent. duty on wheat benefit farmers and labourers?

(*Candidates for B.Sc. are expected to answer* EIGHT *questions only, of which the last* FOUR *may form part.*)

# 4.—FOR DEGREES IN MEDICINE AND SURGERY.

### I.—PRELIMINARY EXAMINATION.

## ENGLISH.

*Saturday, 30th March,* 1901—9 A.M. to 12 NOON.

(EIGHT, *and not more than* EIGHT, *questions are to be answered.* 1 *and* 2 *must be answered, with either* 3 *or* 4, *and either* 5 *or* 6. *The remaining* FOUR *may be any questions not already answered.*)

1. Write an essay, of from two to three pages, on *one* of the following subjects:—

(1) On the special difficulties and advantages attending the adoption of Military Conscription in this country.

(2) Compulsory vaccination.

(3) On the distinctive qualities of Byron and Shelley as poets.

2. Paraphrase:—

There lies the port; the vessel puffs her sail:
There gloom the dark broad seas. My mariners,
Souls that have toiled, and wrought and thought with me—
That ever with a frolic welcome took
The thunder and the sunshine, and opposed
Free hearts, free foreheads—you and I are old;
Old age hath yet his honour and his toil,
Death closes all: but something ere the end,
Some work of noble note, may yet be done,
Not unbecoming men that strove with Gods.
The lights begin to twinkle from the rocks:

The long day wanes: the slow moon climbs: the deep
Moans round with many voices. Come, my friends,
'Tis not too late to seek a newer world.
Push off, and, sitting well in order, smite
The sounding furrows; for my purpose holds
To sail beyond the sunset, and the baths
Of all the western stars, until I die.

3. Give some account of any *four* of the following:—Bede, Anselm, Simon de Montfort, Wiclif, Bacon, Drake, Titus Oates, Dr. Johnson, Clive, Rockingham, Nelson, Lord Palmerston.

4. Give some account of any *four* of the following:—Battle of Hastings, Aids and Scutages, The "Mad" Parliament, The Black Death, Treaty of Troyes, Cade's Rebellion, Battle of Barnet, The Spanish Armada, Ship-money, American War of Independence, The Factory Acts, Indian Mutiny.

5. Give the locality and some circumstances connected with any *six* of the following:—Chatham, Basel (Bâle), Malaga, Port Elizabeth, Ekaterinburg, Nagasaki, Port of Spain, Batavia, Port Arthur, Scutari, Bushire, Nicaragua, Potomac, Hobart, Yosemite.

6. Mention in order the principal capes, straits, islands, and ports that would be passed on a voyage from London to Sydney *viâ* the Suez Canal, Ceylon, and Fremantle.

*Or*, Trace from west to east the southern boundary of Russia in Asia, note carefully the names of the adjoining countries and indicate the extensions of the Russian Empire within the last fifty years.

7. Re-write, so as to correct or improve them, the following sentences:—

(*a*) It had been my intention to have called on you when in town, but the astonishing variety of sights have usurped my time.

(*b*) Carlyle's *Heroes* are a grand work: if we but look within, we shall be richly rewarded by its perusal.

(*c*) These people had never lived with their master, as Doddington at one time lived with his father, or as Sheridan afterwards lived with his son.

(*d*) Being in his company the other day our conversation turned upon adventures that had happened actually by field and flood, and one he told he vouched for the very truth of.

8. Give a *general* analysis of the following sentences, and parse the words in italics:—

*None* of the victories of the New Model were so glorious as the victory it won over itself. Quietly and without a struggle, as *men* who bowed to the inscrutable will of God, the farmers and traders who had dashed Rupert's chivalry to pieces on Naseby field *became* farmers and traders again, and were known by *no* other sign *than* their greater soberness and industry. As soon as the wild orgy of the Restoration was over, men began *to see that* nothing *that* was really worthy in the work of Puritanism had been *undone*.

9. Give the derivations of *eight* of the following words:—priest.

sword, orchard, lady, dollar, mermaid, belief, cabbage, chess, kerchief, welkin, nostalgia, paynim, hideous, ontology, pedigree.

*Or*, Give equivalent words of direct Latin origin, with their derivations for *five* of the following :—watchful, speed, foe, friendship, pride, madness, healthy, saying, clothing, heaviness.

10. Classify adjectives and give, along with a suitable noun, an example of each kind. How are adjectives of two syllables compared? Mention some that do not admit of comparison.

11. Write a short account of any *one* of the following works:—*The Anglo-Saxon Chronicle*, *Geoffrey of Monmouth's History of the Britons*, *The Knight's Tale*, *Utopia*, *The Hesperides*, *Adonais*, *Mac-Flecknoe*, *Gulliver's Travels*, *John Gilpin*, *The Twa Dogs*, *A Canto of Childe Harold*, *Ode on the Death of the Duke of Wellington*.

12. What is meant by: Hobson's choice, an *alibi*, *doyen*, Pom-pom, prairie value, Liberal Imperialist?

LATIN—See p. 461.

GREEK—See p. 464.

MATHEMATICS—See p. 467.

## FRENCH.

*Tuesday, 2nd April*, 1901—3 TO 6 P.M.

I. Translate into French:—

(*a*) Where should the scholar live? In solitude or in society? In the green stillness of the country, where he can hear the heart of Nature beat; or in the dark, grey city, where he can hear and feel the throbbing heart of man? I will make answer for him, and say, in the dark, grey city. Oh, they do greatly err who think that the stars are all the poetry which cities have; and therefore, that the poet's only dwelling should be in sylvan solitudes, under the green roof of trees. Beautiful, no doubt, are all the forms of Nature, when transfigured by the miraculous power of poetry. . . . But, after all, what are these but the decorations in the great theatre of human life? What are they but the coarse materials of the poet's song? Glorious, indeed, is the world of God around us,—but more glorious the world of God within us. There lies the land of song; there lies the poet's native land.—LONGFELLOW.

(*b*) 1. He has just bought a book and he is now going to read it.
2. I know your brother, but I do not know where he is.
3. It is cold this morning, but we are very warm.
4. The ladies set out at noon and arrived at midnight.
5. Are you not going to Paris? Yes, I am.

II. Translate into English:—

(*a*) C'était un dimanche. Le pâtre alla conduire son troupeau au pâturage, et Alfred resta assis auprès du foyer, nettoyant son arc et ses flèches. Il était absorbé dans ce travail, ou plutôt dans les tristes

pensées qui naissaient dans son âme à la vue de ses armes. Cependant, la femme du bouvier avait compté sur lui pour surveiller et pour retourner au besoin quelques pains placés sur la cendre chaude. Retenue elle-même hors de la cabane par d'autres soins, elle vit, avec colère, à son retour, qu'Alfred n'avait pas bougé de sa place, tandis que les pains brûlaient déjà ; et elle s'écria vivement : "Homme ! qui que tu sois ! à quoi penses-tu donc ? es-tu trop fier pour retourner nos pains ? Tu ne veux pas y faire attention maintenant, mais je sais bien que tu voudras en manger tout à l'heure."—(Guizot.)

(*b*) Connaissez-vous cette contrée que l'on a surnommée le jardin de la France, ce pays où l'on respire un air si pur dans les plaines verdoyantes arrosées par un grand fleuve ? Si vous avez traversé, dans les mois d'été, la belle Touraine, vous aurez longtemps suivi la Loire paisible avec enchantement, vous aurez regretté de ne pouvoir déterminer, entre les deux rives, celle où vous choisiriez votre demeure, pour y oublier les hommes auprès d'un être aimé. Lorsque l'on accompagne le flot jaune et lent du beau fleuve, on ne cesse de perdre ses regards dans les riants détails de la rive droite. Des vallons peuplés de jolies maisons blanches qu'entourent des bosquets, des coteaux jaunis par les vignes ou blanchis par les fleurs du cerisier, de vieux murs couverts de chèvrefeuilles naissants, des jardins de roses d'où sort tout à coup une tour élancée, tout rappelle la fécondité de la terre ou l'ancienneté de ses monuments, et tout intéresse dans les œuvres de ses habitants industrieux.—(Alfred de Vigny.)

## III. Grammar.

1. Write the following in the plural :—

| | |
|---|---|
| (*a*) Le cheval gris. | (*d*) Le gentilhomme. |
| (*b*) Ce clou de fer. | (*e*) C'est lui qui [illegible]. |
| (*c*) Sa grand'mère. | (*f*) Un sujet loyal. |

2. Give the comparative and the superlative of the following :—

Bon, mauvais, petit ; bien, mal, peu.

3. From six of the following nouns and adjectives form verbs and give their meanings :—

Croix, courage, bras, maître, merci ;
franc, doux, gai, pur, beau.

4. Write the first person singular and plural of the following :—
   - (*a*) Present Indicative of *mener*.
   - (*b*) Imperfect Indicative of *manger*.
   - (*c*) Preterite (past definite) of *venir*.
   - (*d*) Future Indicative of *savoir*.
   - (*e*) Present Subjunctive of *aller*.
   - (*f*) Imperfect Subjunctive of *devoir*.

5. Translate, giving special attention to the form and position of the pronouns :—

| | |
|---|---|
| (*a*) Give it to me. | (*d*) Go without them. |
| (*b*) Do not give it to me. | (*e*) I shall tell it to her. |
| (*c*) Carry it to them. | (*f*) He and I are poor. |

## GERMAN.

*Wednesday, 3rd April,* 1901—3 TO 6 P.M.

I. Translate into German:—

(*a*) Llewelyn was a famous huntsman, and he had a beautiful hound called Gelert. He had also a little son who loved the faithful dog and played with him daily. One morning Llewelyn went a-hunting. On the way he noticed that Gelert was not with the other hounds. The hunt was unsuccessful. As Llewelyn returned in the evening, tired and vexed, Gelert met him, and he saw that the dog was covered with blood. The father hastened to his child's room, and there he found the cradle overturned, the floor bespatted with blood, and the child not to be seen. Then he thought with horror: "My child is dead; the dog has devoured him;" and he plunged his sword into Gelert's heart. The yell of the dying animal was answered by the cry of the child, whom the father found unharmed beneath the cradle. There too, lay a great wolf, torn and dead, which the faithful dog had slain.—ANON.

(*b*) 1. When he was in London he saw the Emperor.
2. The sun rises in the East and sets in the West.
3. I shall be obliged to go out this morning.
4. I beg you, do that for my sake.
5. Did you meet my father in town to-day?

II. Translate into English:—

(*a*) Ich glaube, ich kann mich noch erinnern, als ich zum erſten mal die Sterne ſah. Sie mögen mich ſchon oft vorher geſehen haben, aber eines Abends da war es mir, als wäre es kalt, obgleich ich meiner Mutter im Schoße lag—und es ſchüttelte mich, und ich fror, oder ich fürchtete mich; kurz es ging etwas in mir vor, was mein kleines Ich mehr als gewöhnlich auf ſich aufmerkſam machte. Da zeigte mir die Mutter die hellen Sterne, und ich wunderte mich und dachte, das hat doch die Mutter recht hübſch gemacht. Und dann fühlte ich mich wieder warm, und mag wohl eingeſchlafen ſein.

MAX MULLER.

(*b*) Die Sonne ging auf. Die Nebel flohen wie Geſpenſter beim dritten Hahnenſchrei. Ich ſtieg wieder bergauf und bergab, und vor mir ſchwebte die ſchöne Sonne, immer neue Schönheiten beleuchtend. Der Geiſt des Gebirges begünſtigte mich ganz offenbar; er wußte wohl, daß ſo ein Dichtermenſch viel Hübſches wiedererzählen kann, und er ließ mich dieſen Morgen ſeinen Harz ſehen, wie ihn gewiß nicht Jeder ſah. Aber auch mich ſah der Harz, wie mich nur wenige geſehen, in meinen Augenwimpern flimmerten ebenſo koſtbare Perlen, wie in den

Gräſern des Thals. Morgenthau der Liebe feuchtete meine Wangen, die rauſchenden Tannen verſtanden mich, ihre Zweige thaten ſich von einander, bewegten ſich herauf und herab, gleich ſtummen Menſchen, die mit den Händen ihre Freude bezeigen, und in der Ferne klang's wunderbar geheimnißvoll, wie Glockengeläute einer verlornen Waldkirche. Man ſagt, das ſeien die Heerdenglöckchen, die im Harz ſo lieblich, klar und rein geſtimmt ſind.

HEINE.

### III.—GRAMMAR.

1. Tabulate the nominative singular, the genitive singular, and the nominative plural of the following nouns, giving the article in each case:

Name, Haus, Nacht, Auge, Vetter, Mauer.

2. Tabulate the 3rd sing. pres. indic., 1st sing. imperf. indic., and 1st pl. perfect indic. of the following verbs:—

geben, abreiſen, antworten, beten, bieten, bitten.

3. Give the meanings of the following verbs, showing clearly the effect of the prefix:—

(*a*) achten and verachten.
(*b*) ehren and verehren.
(*c*) heiraten and verheiraten.
(*d*) jagen and erjagen.
(*e*) trinken and ertrinken.
(*f*) fahren and erfahren.

4. Mention six prepositions which may govern either the dative or the accusative, and give short sentences to illustrate the difference in meaning.

5. Explain, with examples, the difference in the use of du, ihr, and Sie, as employed in ordinary conversation, in literature, and in prayer.

## II.—PROFESSIONAL EXAMINATIONS.

## *I.—FIRST PROFESSIONAL EXAMINATION.*

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## CHEMISTRY.

1*st October*, 1900.

(*Not more than* FIVE *questions are to be attempted. M.A. and B.Sc. Candidates must take questions* 6 *and* 7.)

1. Give an account of the modes of preparation, properties, and uses of carbon monoxide.

2. What is the action, if any, of nitric acid upon the following substances: sulphur, phosphorus, antimony, charcoal, tin, mercury, gold?

3. What volume of phosphuretted hydrogen, measured at 15 and 750 mm. pressure, can theoretically be obtained by boiling 100 grams of phosphorus with excess of caustic potash? [P=31.]

4. How can it be shown experimentally that the composition of hydrogen chloride is correctly represented by the formula HCl?

5. By what means can the direct combination of carbon and hydrogen be effected? Describe the compound formed, and state what other hydrocarbons can be obtained from it, and how.

6. Name the principal ores of zinc, and describe the process by which the metal is obtained. What impurities does commercial zinc usually contain, and how can it be purified?

7. Give an account of the chief characteristics of cane sugar, milk sugar, dextrose, and maltose.

## BOTANY.

*1st October*, 1900.

1. Write a short account of the part played by water in the physiology of Plants.

2. What are nectaries? Where do they occur, and what is their use? Give detailed descriptions of the nectares found in three distinct Natural Orders.

3. Discuss the sources of supply of Nitrogen in Plants.

4. What is a parenchymatous tissue? How is parenchyma distributed in a Dicotyledon? and explain its functions.

5. Give a general account of the life of a Liverwort.

(*Only* FOUR *of the above to be attempted for first Professional. Questions* 1 *to* 5 *to be answered for first B.Sc. No.* 6. *to be answered for M.A.*)

6. Give a concise comparative account of the Vascular system in the stems of Helianthus, Zea, Equisetum, Pteris, and Lycopodium.

## ZOOLOGY.

*1st October*, 1900.

(*Candidates for Medical Degree are only to answer* FOUR *questions.*)

1. What are the chief modifications of structure among the lamellibranchiata? To what extent can you ascertain the structure of the animal from the dry shell?

2. What evidence of the reptilian affinities of birds can be given from (*a*) the skeleton and (*b*) the circulatory system?

3. Describe the typical arrangement of the nervous system and proboscis in the nemertines. In what way may the nervous system be held to be related to that of (*a*) the chætopod worms and (*b*) the vertebrata?

4. Describe the process of segmentation in the hen's egg. How does this compare with the segmentation of the egg of the frog or of amphioxus?

5. How does a lamellibranch procure its food? In what respects does the mouth differ from that of the other mollusca (gastropoda and cephalopoda)?

6. What is meant by alternation of generations? Mention any groups in which it occurs, and describe the life cycle of some one form.

## PHYSICS.

*2nd October*, 1900.

(*Answer* FOUR *questions only.*)

1. Define work, energy. Distinguish carefully between work and activity.

Explain the physical principle known as the conservation of energy. Give some examples of the transformation of energy.

2. Describe the construction of a mercury barometer, and explain on exact hydrostatic principles the support of the column of mercury in the tube, and how the barometric height affords a measure of the atmospheric pressure at a place. What corrections must be applied in careful measurements? Why does a sharp shower of rain cause the barometer to fall?

3. Give the formula for the number of vibrations made by a string of given length, tension, and weight, and explain how it is experimentally verified. A string stretched by a weight of 64 ounces gives the note C. What additional weight is required to make the string give the note D? Take

frequency of C = 256,
" D = 288.

4. How would you measure the focal length of an ordinary lens? How would the results obtained with red light and blue light differ, and how may a lens be constructed in which this difference does not exist? Explain carefully the construction of an ordinary telescope, *e.g.* the common opera glass. What is the optical action of each of the principal parts?

5. A current of one ampere, flowing through a resistance of one ohm, generates in a second ·24 of a unit of heat. Find what quantity of heat is generated in a minute in a wire of 2½ ohms resistance, which is attached to the terminals of a battery of 10 cells in series, each having an E.M.F. of 2 volts and a resistance of ·15 of an ohm.

6. Give some account of the mode of production of induced currents, with a statement of the elementary laws of current induction.

Describe the common induction coil and explain carefully the functions of the different parts.

## *II.—SECOND PROFESSIONAL EXAMINATION.*

### ANATOMY.

*2nd October*, 1900.

1. Describe the attachments and relations of the boundaries, muscles and fibrous bands of an intercostal space, taking the fifth for an example; also describe the vessels and nerves in its extent between vertebral column and sternum.

2. Describe the form, appearance, position, surroundings, and vascular supply of the thyroid body.

3. Compare the appearances presented to the unaided eye by mucous membrane from the stomach, from the duodenum, from the ileum and from the great intestine.

4. Describe the connexions and movements of the ossicles within the tympanum.

### PHYSIOLOGY.

*2nd October*, 1900.

(*Not more than* THREE *questions to be attempted.*)

1. (*a*) How does skeletal muscle differ as regards its structure and action from cardiac muscle? (*b*) What physical and chemical phenomena are associated with contraction of a skeletal muscle? In your answer indicate the methods by which they may be demonstrated on an excised muscle of a frog.

2. Describe the action of the mechanism—muscular and nervous—involved in (*a*) calm, and (*b*) forced breathing. How do the respiratory movements affect the flow of blood and lymph respectively?

3. (*a*) What are the effects of cutting the cervical sympathetic nerve in the neck of a rabbit? (*b*) How are these effects explained, and how has the course of the nerve-fibres involved been traced? (*c*) What is the value of nicotine in the study of this question?

4. How may glycosuria be produced experimentally? In each case you mention state the probable mechanism by which this result is brought about.

### MATERIA MEDICA AND THERAPEUTICS.

*1st October*, 1900.

1. Explain the diuretic action of *Strophanthus*, *Mercurial Pill*, *Potassium Acetate*, *Oil of Juniper*, and *Caffeine*, mentioning the conditions in which their diuretic effects are therapeutically useful, and stating the preparation and dose you would employ.

2. Describe fully the therapeutical uses of *Potassium Permanganate*, stating exactly how you would use it in each case, and writing a prescription for its internal and external application respectively.

3. Give an account of the preparation of *Diphtheria Antitoxin*. Describe how it is used, and explain the principles underlying its action.

4. Mention the preparations of *Ammonium* which are given internally, stating their doses, and giving an account of their therapeutical applications.

## *III. THIRD PROFESSIONAL EXAMINATION*

### REGIONAL ANATOMY (M.B. AND C.M.)

*2nd October*, 1900.

1. Describe the relations of the parotid gland, and the structures passing through it.

2. Describe the origin, course, and distribution of the median nerve.

3. Describe the origin, course, and branches of the arteria profunda femoris.

### PATHOLOGY.

*3rd October*, 1900

(*Only* FOUR *questions to be answered*.)

1. Give an account of the modes in which infectious diseases are spread, discussing especially Cholera and Bubonic Plague. Describe the organisms associated with these two diseases.

2. Describe the morbid anatomy of Addison's disease, and discuss its pathology.

3. What are the principal varieties of Meningitis? Give a detailed account of the tubercular form.

4. Give an account of Appendicitis, including its etiology, morbid anatomy, varieties and modes of termination.

5. State the chief morbid conditions in which changes are met with in the number and character of the red blood corpuscles. Give a detailed account of any one disease in which such changes constitute a leading feature.

### MEDICAL JURISPRUDENCE.

*3rd October*, 1900.

(*Candidates under Old Regulations to answer* FIVE *questions. Candidates under New Regulations to answer* FOUR *questions, of which No. 1 must be one.*)

1. State the essential contents of a medico-legal report upon a post-mortem examination of a body, and the general rules of conduct which should be followed by a medical examiner in such examinations.

2. What is post-mortem lividity or hypostasis? Under what circumstances may it present an unusual appearance? What conclusions of medico-legal importance may be drawn from its presence or absence?

3. The body of a man, in a fresh condition, is recovered from a canal, and presents marks of external violence: state the evidence upon which you would determine (*a*) that death was due to drowning; (*b*) that it was a case of suicide; and (*c*) that the injuries were produced after death.

4. A young child is alleged to have died from starvation; what post-mortem appearances would you expect to find in order to substantiate a criminal charge? and what are the lines of a defence which might be put forward in such a case?

5. A man is found lying dead upon the floor, and, near at hand, there is a packet containing a white crystalline substance. He was seen alive and well half-an-hour previously. What poison did the packet contain, and by what tests might you determine its identity?

## PUBLIC HEALTH.

*3rd October*, 1900.

(*Candidates to answer* FOUR *questions, including No.* 5.)

1. What are the effects produced upon the air of a dwelling-house by overcrowding? Mention the various results which have been observed upon the health of persons living in a state of overcrowding.

2. Discuss shortly the advantages and disadvantages of a water-supply delivered upon the intermittent and constant systems respectively.

3. Indicate generally how the refuse matters and sewage of a small country village might be safely disposed of.

4. Name the most efficient germicidal substances, and state in what respects each is most applicable in practice, and why.

5. An outbreak of typhus fever occurs in a district of which you are Medical Officer of Health: what precautions would you adopt in order to prevent the disease spreading?

## *IV.—FINAL PROFESSIONAL EXAMINATION.*

## SURGERY.

*21st June*, 1900.

(FOUR *questions only to be answered.*)

1. Describe the histological processes involved in the absorption of
   (1) A portion of catgut in the living tissue;
   (2) A portion of necrosed bone in the living tissue.

2. In ulcers of the face give the differential diagnosis of rodent ulcer, epithelioma, lupus, and syphilis.

3. Give the distinguishing features of carcinomatous and sarcomatous tumours.

4. Mention the varieties of swelling which may be found in the scrotum, and give the diagnostic features of each.

5. Give the symptoms of tumours of the cerebellum.

## PRACTICE OF MEDICINE.

21st *Jan.*, 1900.

1. Describe the leading characteristics of Influenza, as an epidemic, and as a disease of the individual patient. How does it resemble, and how does it differ from, such typically epidemic diseases as smallpox, typhus, cholera?

2. Indicate in a general way the clinical distinctions among diseases attended by more or less sudden unconsciousness. Select one such disease for more particular description, and allude to its diagnosis, prognosis, and treatment.

3. A patient presents himself with unmistakable Jaundice. What are the varieties of this condition, and how may they be differentiated from one another?

Give directions for the dietetic and medicinal management of the remediable form of Jaundice, writing your prescriptions in full.

4. A woman, aged 34, was admitted to hospital in February complaining of abdominal pain, sudden in onset and of two days' duration. Six weeks previously she was in bed for some days on account of influenza, and had since suffered from breathlessness on exertion and a tendency to diarrhœa.

When a girl she had an attack of chorea, but her life otherwise had been a healthy one. Her family history was unimportant.

On admission she was pallid and looked feeble; her pulse was rapid, irregular, and numbered 108; and her temperature was 101°. The area of cardiac dulness was increased transversely so that the right margin reached the right edge of the sternum; the apex beat was diffuse but within the nipple line; there was considerable epigastric pulsation; the first sound was muffled and there was a systolic murmur which could be heard over the whole cardiac area, but whose seat of greatest intensity was the neighbourhood of the pulmonic cartilage. The lungs were normal. The liver edge could be felt below the costal arch, but there was no marked enlargement. In the left hypochondrium there was tenderness to touch and dulness to percussion, but muscular rigidity rendered thorough examination impossible. The urine contained a haze of albumen.

Considerable improvement ensued on complete rest in bed, simple diet, and quinine in repeated small doses, but the temperature remained erratic and seldom came down to normal. A few days later she complained of sudden pain in her left axilla, and developed a cough which was accompanied by difficulty of breathing and dark blood-stained expectoration; the temperature rose, the pulse was accelerated, and within a few hours of the first onset of pain physical examination over the left base revealed a patch of comparative dulness over which there was a bronchial breathing, and in the neighbourhood of which there was abundant fine crepitation. The amount of albumen was notably increased, and, in addition, the urine contained blood.

After another few days, improvement again set in but was arrested by the occurrence of sudden ~~acute pain~~ in the head, accompanied by mental confusion and incoherence of speech with some evidence of loss of power down the right side of the body. Within two hours coma ensued and the patient died next morning without recovering consciousness.

Discuss this case in all its bearings, and state the conclusions at which you arrive—together with the reasons by which you are guided to them—from a consideration of the facts set forth.

## OBSTETRICS AND GYNAECOLOGY.

*22nd June*, 1900.

(*Answer* FOUR *questions, including* 4 *and* 5.)

1. How would you diagnose a transverse presentation? Enumerate the dangers.

(*a*) to the mother, (*b*) to the child, and describe shortly the treatment.

2 What are the various kinds of pelvic deformity?

Describe a flat pelvis, and give the mechanism of labour in such a case.

3. State briefly what you know as to the causes of rupture of the uterus, and describe shortly the treatment

(*a*) where the presenting part has not receded;
(*b*) where the foetus has escaped into the peritoneal cavity.

4. A swelling is felt in the pouch of Douglas. What may this be: and how would you determine its character?

5. Describe the operation of curetting the uterus, and state the conditions in which it might be necessary for diagnosis or treatment.

# 5.—FOR DEGREES IN LAW.

## I.—PRELIMINARY EXAMINATION FOR B.L.

### a.—ARTS AND SCIENCE PRELIMINARY.

(See pp. 458—478.)

### b.—ARTS SUBJECTS.

(Same as for Degree of M.A. See pp. 478—507.)

## II.—LAW EXAMINATIONS FOR LL.B. AND B.L.

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## CIVIL LAW—THREE HOURS.

(*Candidates are requested to answer only* TEN *of the following twelve questions.*)

1. Discuss the statements:—

(*a*) "The early *Populus Romanus* was the result of a fusion of communities of different race."

(*b*) "The Roman family was based on Agnation."

2. Describe the functions of (*a*) the *censor* and (*b*) the *tribunus plebis*. State the circumstances in which these two offices were instituted respectively.

3. State briefly the origin and scope of the *jus gentium*.

What were the chief steps in the process by which the Roman *civitas* was gradually extended?

4. Distinguish *jus publicum* and *jus privatum*.

Comment on the statement of Papinian: "Testamenti factio non privati sed publici juris est" (D. 28. 1. 3).

Explain the expression [illegible].

5. Translate:—

Quod principi placuit, legis habet vigorem. Quodcumque igitur imperator per epistulam constituit vel cognoscens decrevit vel edicto praecepit, legem esse constat: haec sunt, quae constitutiones appellantur (*Inst.* 1. 2. 6).

Distinguish and explain the different forms of *constitutiones* referred to in this passage.

6. Examine the meanings of the term *persona*.

What conditions were considered essential to the existence of a natural *persona*?

Discuss the statement:—

Servus nullum caput habet (*Inst.* 1. 16. 4).

7. Describe the position of the *paterfamilias* in relation to (*a*) the person and (*b*) the property of those in his *potestas*, distinguishing the earlier and later law.

8. Illustrate the application of the principle:—

Namque placuit meliorem quidem suam conditionem licere pupillis facere etiam sine tutoris auctoritate, deteriorem vero non aliter quam tutore auctore (*Inst.* 1. 21. pr.).

What means were taken to protect the property of pupils against loss by the misconduct or carelessness of their tutors?

9. Distinguish personal and praedial servitudes.

Explain the following maxims in the law of servitudes:—

(*a*) Res sua nemini servit.

(*b*) Servitus in faciendo consistere nequit.

State briefly the main features of *emphyteusis*.

10. Discuss the statement:—

Hereditas est successio in universum jus quod defunctus habuit (D. 50. 16. 24).

What protection did Justinian provide for the heir against the risk that the liabilities carried by the succession might exceed its value?

Explain the expressions "dies cedit," "dies venit," in the law of legacy.

11. What was the effect of *naturalis obligatio*?

Enumerate the contracts *re*.

Classify the different varieties of *pignus*, and summarise the rights of the *creditor pigneraticius*.

12. Explain *cautio damni infecti*.

Enumerate the *legis actiones* of the old law.

What category of contracts were enforceable by the *actio in factum praescriptis verbis*.

(CANDIDATES FOR DEGREES IN LAW *are recommended to answer, in addition to the above*, TWO *of the following questions.*)

1. What was the general rule as to risk (*periculum*) in the contract of sale? How did it apply to (1) conditional sales, (2) sales of fungibles?

2. Translate, and comment on the statement:—

Si res ita distracta sit, ut si displicuisset inempta esset, constat non esse sub conditione distractam, sed resolvi emptionem sub conditione (D. 18. 1. 3).

3. State the rules as to (*a*) lex commissoria, (*b*) laesio enormis, in relation to sale.

## SCOTS LAW—THREE HOURS.

(*Not more than* TWELVE *of the following questions to be attempted, of which* ONE *must be in* CRIMINAL LAW.

1. Define a contract. State three classes of persons who are either wholly or partially incapable of contracting, and show how the law supplements their deficiency in that respect.

2. On what ground may a person bring an action within the *quadrennium utile* to reduce a contract made by him, and on what grounds may the action be defended? Distinguish this action from one founded on *facility and circumvention*.

3. *A* dies in 1900, unmarried and intestate, leaving heritable and moveable estate, and survived by two brothers, *B* and *C*, both older than himself, and a father *F*. Who is his heir in heritage? Show how the estate ought to be divided between *B*, *C*, and *F*, supposing (*a*) that the heir in heritage collates, and (*b*) that he does not.

4. What is a mercantile agent for the purposes of the Factors Acts? If such a person being in possession of goods as a mercantile agent pledges them for ready money and becomes bankrupt, what are the respective rights of the true owner of the goods and the pledgee?

5. In what ways may marriage be contracted in Scotland?

6. How are goods delivered, which have been sold when in the possession of a third party. When has a seller of goods the right of stoppage *in transitu*?

7. Explain the terms affreightment, demurrage, and deviation. What is the purpose of a bill of lading when a ship is hired under charter party?

8. A merchant to whom goods were delivered under a contract of sale rejected them, and refused to pay the price on the ground that they were disconform to contract. He also retained them in security of a claim of damages due to the seller's alleged breach of contract. Discuss whether under the Sale of Goods Act he was liable for the price.

9. If a partnership and all the partners become bankrupt, show how the creditors of the firm and those of the partners as individuals should be ranked on the various estates.

10. What is the effect of (*a*) a *presumptio juris*, and (*b*) a *presumptio juris et de jure*?

11. What is the difference in effect between an oral promise to grant a lease of land and an oral promise to pay money? If there be no writ can these respective promises be proved otherwise? If so, how?

12. What is the difference between proper and improper cautionry? How should a cautionary obligation be constituted? Is there any exception?

13. Explain shortly any five of the following terms:—legitim, passive representation, *pro indiviso*, negotiation of a bill, consent clause, homologation, joint and several, *sponsio ludicra*, urban servitude.

## CRIMINAL LAW.

14. State how the power of the crown to delay the trial of an accused person is limited.

15. Give three special defences *or* three pleas in bar of trial, and state when such defences *or* such pleas must be tendered.

## CONVEYANCING—Three Hours.

(*Not more than* TWELVE *questions to be attempted.*)

1. Discuss historically the relation of superior and vassal, showing the extent to which the original features of the relationship persist at the present day.

2. When was the Notarial Instrument first introduced? Indicate the part which this writ plays in modern conveyancing. Can a real burden be constituted by a Notarial Instrument? Discuss the matter.

3. What is a Split? Show how it was intentionally effected in order to create a freehold vote and how it might arise through error in the case of an *a me vel de me* disposition.

4. Enumerate and explain the purpose of the various clauses of a Charter of Resignation.

5. What is meant by entry with the Superior? How was it formerly and how is it now effected? When and why was the notice of change of ownership introduced?

6. *A* died infeft and entered. How would (1) his heir-at-law, (2) his testamentary trustees, respectively, have completed a title to *A*'s property (*a*) in 1850, (*b*) in 1900?

7. Indicate the nature and purpose of the Precept or Writ of Clare Constat. State the law as to the effect upon it of the death of the granter and of the grantee respectively.

8. Write an historical note on the development of the modern Bond and Disposition in Security.

9. State the former and the present law as to the notarial execution of deeds.

10. Enumerate the superior's remedies for recovery of feu duty. In what respects is a ground annual inferior to a feu duty from the creditor's point of view?

11. Give the form and import of the statutory clause of relief in a disposition and discuss its operation where more than one casualty has fallen due and remained unpaid.

12. State the provisions of the 1868 and 1874 Acts relating to inhibitions. Do they affect the period of a prescriptive search?

13. Indicate the common law and the statutory modifications thereof with regard to the liability incurred by an heir through making up a title to his ancestor's estate.

14. What provision does the 1874 Act make for the redemption and commutation of casualties in feus created prior to 1st October, 1874?

15. Was a superior bound to grant an entry to trustees or to a corporation? How does the 1874 Act deal with the matter?

16. State when the fee vests under the following destinations by a testator in his Trust Disposition and Settlement:
(1) To *A* in liferent and *B* in fee.
(2) To *A* in liferent and *B*, whom failing *C*, in fee.
(3) To *A* in liferent and *B* and *C* and the survivor of them in fee.
(4) To *A* in liferent and her issue in fee.
(5) To *A* in liferent and her issue, whom failing *B*, in fee.

## PUBLIC INTERNATIONAL LAW—THREE HOURS.

(*Omit* TWO *questions under heads* A *and* B.)

### A.

1. Mention some objections that have been taken to the title "International Law."

2. Explain these terms: *Mare clausum*; Extraterritoriality; Hovering laws; Sphere of Influence; *Exequatur*. Each explanation should not exceed two or three sentences.

3. What were the points of controversy in the following cases: The Peterhoff; the Huascar; the Tuscarora; the Danebaat African.

4. What is meant by the so-called right of innocent passage? Illustrate your answer.

5. *Nemo potest exuere patriam.* How has this doctrine been modified?

6. Discuss the immunities of a public vessel in a foreign port.

B.

7. Give a short account of the recent blockade of Crete by certain of the Great Powers. How far can it be justified on the principles of International Law?

8. Discuss shortly the doctrine of continuous voyages in relation to contraband of war.

9. Give an account of the Geneva Convention. How far has it been extended to maritime warfare?

10. Give in propositions as for a code, regulations dealing with spies.

11. What are the liabilities of the subjects of one belligerent, resident within the territory of the other belligerent, after the outbreak of war as to (1) their persons, (2) their property?

12. Discuss the origin and principles of the Armed Neutrality of 1780.

C.

*(Write short essays on any* TWO *of the following topics.)*

13. The Balance of Power.

14. Politics and International Law.

15. The Hague Conventions as to War.

16. Chartered Companies in International Law.

17. Intervention.

18. The sanction of International Law.

## INTERNATIONAL PRIVATE LAW.—THREE HOURS.

*(Omit* TWO *questions under each of heads* A *and* B.)

A.

1. Give a definition of domicil, and comment thereon, referring to authorities.

2. Illustrate the rule that British nationality is not inherited through women.

3. K is a foreign sovereign living in Scotland *incognito* under the name of S. Whilst in Scotland and passing as a British subject, he makes a promise of marriage to A, a Scotswoman, who has no knowledge that K is a foreign sovereign. K breaks his promise. A brings an action against K. *Quid juris?*

4. A, an American citizen, publishes in New York a libel of X, an American citizen. In what circumstances will X have a remedy in Scotland?

5. A Scotsman dies intestate in Glasgow, possessed of estate in Scotland, England, Australia, France and America. State generally how his estates should be collected and distributed, and what British duties should be paid thereon.

6. Give a brief report of *one* of the following cases: Udny *v.* Udny; *In re* Bourgoise; P. & O. Co. *v.* Shand; Sottomayor *v.* De Barros; Le Mesurier *v.* Le Mesurier.

B.

7. X is the owner of a British ship. An action is brought by A against the ship in a Louisiana Admiralty Court. The ship is not and never has been in fact under the control of the Court, nor within the territorial limits of the State of Louisiana. A having obtained a judgment, can he enforce it in Scotland?

8. X & Co., a Glasgow firm, contract in Glasgow to sell to A & B, also a Glasgow firm, 20,000 bags of bananas, to be shipped by a Spanish company at a Teneriffe port on board vessels to be provided by A & B, who are to pay for the bananas in Glasgow in cash on or before the arrival of the ships at the port of destination. The Spanish Government having prohibited export in circumstances which would excuse performance in a Spanish Court, would the plea be valid in a Scots action?

9. A bill is drawn in Belgium and endorsed blank in France. Can the endorsee sue in Scotland?

10. X & A, Scotsmen domiciled in Scotland, are travelling for a week in England. A in York saves X's life at the risk of his own, and X soon afterwards, and whilst in England, promises A in writing to pay him £1000 as a mark of X's gratitude. X later refuses to pay the £1000. *Quid juris?*

11. X, a Frenchman, incurs in France a debt to A, also a Frenchman. A having raised an action in Scotland, X pleads that the debt is discharged by a French prescription. Discuss the plea.

12. State the effect of a Scottish sequestration on estate and debts due furth of Scotland.

C.

(*Write brief essays on any* TWO *of the following topics.*)

13. The value of Foreign authorities in Private International Law.

14. The Conflict of Laws in Nationality.

15. International Copyright.

16. Matrimonial Domicil.

17. The Law of the Flag.

18. Private International Law as a system of Choice of Laws.

## JURISPRUDENCE—Three Hours.

### PHILOSOPHY OF LAW.

(*Omit* TWO *questions under each of heads* A *and* B.)

### A.

1. Account for the relatively early development and importance of the law of procedure as compared with substantive law, and trace its influence upon the latter.

2. What are the principal points in which the analogy between the State and a physical organism breaks down?

3. "Parliamentary government is simply a mild and disguised form of compulsion; we agree to try strength by counting heads instead of breaking them." ([illegible] *James Stephen.*)

"It is on opinion only that all governments are founded, and the maxim extends to the most despotic and military governments, as well as to the most free and popular." (*Hume.*)

Discuss the question raised in these quotations.

4. "We hear of essentially Protestant Governments and essentially Christian Governments, words which mean just as much as essentially Protestant cookery or essentially Christian horsemanship." (*Macaulay.*)

"I believe it to be simply impossible that legislation should be really neutral as to any religion which is professed by any large number of the persons legislated for: he that is not for such a religion is against it." (*Fitzjames Stephen.*)

Examine the grounds of these opinions respectively.

5. Upon what principles should the legislator decide what agreements ought to be enforced as contracts?

6. "Projects of perpetual peace to be logical, must be projects of all-embracing empire." Examine this.

### B.

7. What is the relation of Law and Custom?

8. Explain and criticise the phrases: "Antecedent rights," "remedial rights," "normal rights," "abnormal rights," "adjective law."

9. Give a classification of persons, and explain the purpose thereof.

10. State Holland's views as to the application of Law, and discuss the view that they are the consequence of his definition of Law.

11. What place does Holland assign to Criminal Law in his scheme of Analysis? Give and criticise his division of wrongs.

12. Translate and comment on:

Regula est quae rem, quae est, breviter enarrat. Non ex regula jus sumatur, sed ex jure, quod est, regula fiat. Per regulam igitur brevis rerum narratio traditur, et ut ait Sabinus, quasi causae conjectio est, quae simul quum in aliquo vitiata est, perdit officium suum. (L. 1. De R. J.)

Regula dicta est eo quod recte ducit nec aliquando aliorsum trahit. Alii dixerunt regulam dictam, vel quod regat, vel normam recte vivendi praebeat vel quod distortum pravumque est corrigat. (Decret. P. 1. 3. 2.)

### C.

(*Write short essays on any* TWO *of the following topics.*)

13. The legal idea of negligence.

14. The Theory of Possession.

15. The value of the predictions of political philosophers.

16. The possibility of imposing legal limitations on the power of a legal sovereign.

17. The vitality of the institution of Kingship.

18. The Referendum.

## CONSTITUTIONAL LAW AND HISTORY—THREE HOURS.

(*Omit* TWO *questions in each Part.*)

### PART I.

1. Discuss very briefly the systems of (1) local government, (2) central government, (3) preservation of law and order in the Anglo-Saxon period.

2. Quote the clauses of Magna Carta which are of vital importance. Take any one of the principles therein enunciated and give a short history of the steps by which it became recognised as a rule of law.

3. Describe the nature of the writs issued to summon the Parliament of 1295. Show what is the importance of the form of summons.

4. What new powers were (1) claimed by, (2) granted to, the Crown in the Tudor Period?

5. Give a detailed report of one or other of the two following cases: (1) Seven Bishops, or (2) Bates' Case.

6. Discuss the origin and growth of the Star Chamber.

7. State briefly the points raised in the cases of Haxey, Hampden, Ferrers, Strode, Thorpe.

8. Discuss the constitutional importance of any *two* of the following impeachments: (1) Lord Bacon, (2) Lord Strafford, (3) Lord Somers.

### PART II.

9. In what ways does the modern constitution secure (1) Independence of Judges, (2) Liberty of the Press, (3) Right of Public Meeting?

10. Sketch the procedure in a Private Bill. What change has been recently introduced with regard to this procedure?

11. Discuss briefly the constitutional questions raised in the case of John Wilkes.

12. Of what different classes does the House of Lords consist? By virtue of what titles do they severally sit?

13. Explain the constitutional functions of (1) a Petition of Right, (2) an Act of Indemnity, (3) the Riot Act.

14. What is Party Government? How far and by what means is its maintenance secured?

15. Explain the chief functions exercised by the House of Commons for the benefit of the nation.

16. Discuss *one* of the following topics: (1) the constitutional aspects of the Union of the Crowns in 1603, or (2) the provisions of the Act of Union of 1707.

## MERCANTILE LAW.

*(Only* TEN *questions to be attempted.)*

1. If a partner of a legal firm without special authority accepts a bill of exchange in the firm's name, is the firm liable to the drawer? If the firm had been a trading one on what considerations would the question of liability have depended?

2. What defence is useless against a holder of a bill of exchange for value though he is not a holder in due course? C by a fraud induces A to draw a bill on B in his favour and indorses it to C, who is a holder in due course. After it is due C indorses it to D, who happens to know of the fraud. B fails. Can D sue A?

3. In what circumstances does (*a*) a partner become liable for debts incurred by the partnership prior to his becoming a partner, and (*b*) a retired partner cease to be liable for debts incurred prior to his retiral?

4. A contract of copartnery for a term of years contained stipulations (1) that no partner should retire without giving a certain notice, and (2) that on the dissolution of the firm a certain method should be used in ascertaining the respective rights of the partners. The partners continued to trade beyond the term. Explain their relation to each other after the term and show how far these stipulations were applicable on one of them wishing to retire.

5. A and B grant a promissory note for £20 to C and subsequently become bankrupt, each paying 10s. in the pound. For how much may C vote and rank in the respective sequestrations, (*a*) if the bill was granted for value, and (*b*) if it was granted for A's accommodation?

6. State shortly the effect of the Acts 1621, c. 18, commenting on the expressions "true, just, and necessary causes," and "any true creditor," as they occur therein.

7. When partowners of a ship disagree as to the mode of employing her, what are the respective rights of the majority and minority under the English rule? What is the remedy allowed in Scotland?

8. A shipowner trading with an American port inserts in his bills of lading a provision that he is not to be liable for unseaworthiness due to the act or default of any person in providing or navigating the ship. How far is the owner protected if the cargo be damaged through the negligence of any of the crew?

9. Goods were shipped under a bill of lading which incorporated the Harter Act, S. 3. A competent crew was provided, but through the negligence of one of them the cargo was damaged by leakage. The shipper sued for damages. *Quid juris?*

10. Two ships, A and B, are in collision. The damage sustained by A (500 tons) is £4000 and that by B (3000 tons), £2800. The damage sustained by the cargo of A is £100, and that by the cargo of B, £800. If no life is lost and the fault cannot be fixed on either ship, for what amount are the owners of A liable, and for what amount are the owners of B and the respective cargo owners entitled to claim against A?

11. State under what circumstances and to what extent a Memorandum of Association of a Limited Company may be altered under the Companies Acts.

12. Where the Articles of Association of a Limited Company contain a provision that A.B. shall be the solicitor of the Company for a specific period and that the Directors of the Company shall pay all the expenses incidental to the formation of the Company can A.B. or the solicitor employed by the promoters enforce either of these provisions? Give reasons for your answer.

## FORENSIC MEDICINE—Two Hours.

*(Not more than* FOUR *questions to be attempted, of which No.* 5 MUST *be one.)*

1. State the law as to the crime of Infanticide, and show in what respect it is defective. Indicate the general character of the evidence, especially medical, which you would expect to be led at a trial for this crime.

2. Enumerate the commonly recognised signs of death by drowning. Discuss their reliabity and relative worth.

3. Give in detail two of the most conclusive tests for Blood. Point out how the blood of Mammals may be distinguished from that of other classes of animals.

4. Discuss the legal effect of Insanity in its different degrees on (1) criminal responsibility, and (2) testamentary capacity.

5. What are the symptoms of poisoning by Arsenic? Give in detail two tests for this poison. Under what circumstances might Arsenical poisoning arise on an extended scale, and what is likely to be the source of its origin?

## 6.—FOR DEGREE OF B.D.

### I.—FIRST DEPARTMENT.

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## HEBREW.

### FIRST PAPER—Three Hours.

**I. Point and translate the following:**

ויצא המן ביום ההוא שמח וטוב לב וכראות
המן את־מרדכי בשער המלך ולא־קם ולא זע ממנו
וימלא המן על־מרדכי חמה׃ ויתאפק המן ויבוא
אל־ביתו וישלח ויבא את אהביו ואת־זרש אשתו׃
ויספר להם המן את כבוד עשרו ורב בניו ואת כל
אשר גדלו המלך ואת אשר נשאו על־השרים ועבדי
המלך׃ ויאמר המן אף לא הביאה אסתר המלכה
עם־המלך אל־המשתה אשר עשתה כי אם אותי
וגם למחר אני קרוא לה עם־המלך׃ וכל־זה איננו
שוה לי בכל עת אשר אני ראה את מרדכי היהודי
יושב בשער המלך׃ ותאמר לו זרש אשתו וכל
אהביו יעשו עץ גבה חמשים אמה ובבקר אמר
למלך ויתלו את מרדכי עליו ובא עם המלך אל
המשתה שמח וייטב הדבר לפני המן ויעש העץ׃

**II. Translate the following into idiomatic Hebrew:**

And it came to pass in the days of King Soliman (this is King Soliman who reigned in Turkey,[1] and the Levant, and Greece, and in many provinces,[2] that in those days, when King Soliman sat on the throne of his kingdom, which was in Constantinople, the great city, he considered all the provinces of his kingdom, and he sent to each province a chief to judge its people in righteousness and equity. After these things, King Soliman promoted one of his chiefs, whose name was Ahmed Shaitan,[3] and he placed his seat above all the chiefs that were with him. And he sent him to be a ruler over the land of Egypt, and he commanded him, saying, Egypt have I given to thee, and in it shalt thou dwell, and according to thy word shall all my people be ruled; only in the throne will I be greater than thou. Only be thou strong and very courageous to judge in righteousness, and to discard unjust gain, and the coinage[1] shalt thou issue in my name. And Ahmed Shaitan came into the land of Egypt, and he went up to the Citadel[2] and dwelt there. *Megillath Mizraim.*

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[1] Turkey, תוגרמה.

[2] Province, מדינה.

[3] For *Ahmed Shaitan* put *the notorious Satan.*

## SECOND PAPER—THREE HOURS.

I. 1. Translate Psalm ii.

2. Parse יהגי (v. 1), נוסדו (v. 2), ננתקה (v. 3), יבהלּמו (v. 5), אתנה (v. 8), תרעם (v. 9), תנפצם (v. 9), and הוסרו (v. 10).

3. What is the syntax of:
(*a*) רגשו . . . יהגו (v. 1); (*b*) מלּכי ארץ (v. 2);
(*c*) ננתקה (v. 3); (*d*) ואתנה (v. 8);
(*e*) הר־קדשי (v. 6); (*f*) פן־יאנף ותאבדו (v. 12).
(*g*) חוסי בו (v. 12)?

4. Different renderings have been given of נסכתי in v. 6, and of נשקו בר in v. 12. State and criticize them, and defend your own rendering.

5. Remark on the forms אלּימו (v. 5) and ילּדתיך (v. 7).

6. What were the circumstances that called forth the Psalm? Who was the king? Give your reasons for the view you adopt.

II. 1. Translate Zechariah ix. 9-17.

2. Parse הריעי (v. 9), ונכרתה (v. 10), אשיב (v. 12), ועוררתי (v. 13), המו (v. 15), ינובב (v. 17).

3. What is the syntax of:
(*a*) ועל עיר (v. 9); (*b*) גם (v. 11); (*c*) מגיד (v. 12);
(*d*) כי דרכתי and קשת (v. 13); (*e*) המו (v. 15);
(*f*) כצאן עמו (v. 16)?

4. The ancient versions render נושע (v. 9), "Saviour." What objection is there to this rendering? What is the proper rendering?

5. The LXX render ומשלּו מים עד־ים by *καὶ κατάρξει ὑδάτων ἕως θαλάσσης*. How did they read their Hebrew text? How do you account for *δέσμιοι τῆς συναγωγῆς* as a rendering of אסירי התקוה (v. 12)?

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[1] Coinage, מטבע.

[2] Citadel, פסגה.

6. (*a*) To whom does the prophecy in vv. 9, 10 refer ? Give reasons for your opinion.

(*b*) Does the mention of Ephraim and Jerusalem (v. 10) give any indication of the date of the prophecy ?

(*c*) Who were the בני יון (v. 13) ? What bearing has the answer to this question on the date of the prophecy ?

## NEW TESTAMENT EXEGESIS—THREE HOURS.

1. What conclusions may be drawn from internal evidence (1) as to the readers for whom the author of the Acts wrote the book, and (2) as to the date at which it was written ?

2. The book of Acts is the second member of an intended trilogy. Explain this statement, and indicate the phenomena in the extant writings of Luke which may be adduced in support of this view.

3. The writer of the Acts intended to draw a parallel between Peter and Paul. What arguments may be adduced (1) for, and (2) against this statement ?

4. The fashion of inserting unhistorical speeches in historical compositions prevailed in St. Luke's day. Did he follow this fashionable literary method in the Acts, or did he avoid it ? Give reasons for your answer.

5. Compare Luke viii. 22—25 with the corresponding passage in Matthew's gospel, and account for the differences if you can.

6. Translate Luke xv. 1, 2. What is the force of the imperfects ? What light does the passage throw on the primary purpose of the three parables in the chapter ?

7. Translate, with exegetical notes, Luke xviii. 1—8.

8. Translate and expound I Cor. v. 3—5 ; I Cor. xi. 2—10 ; II Cor. xii. 1—10.

## APOLOGETICS—THREE HOURS.

1. Indicate your view of the standpoint and present significance of Kant's Philosophy of Religion ; and examine his definition of Religion generally.

2. Review Kant's conception and treatment of Christianity.

3. Summarise Hegel's view of Religion and the process of its historical development, indicating its stages. Criticise.

4. Show generally how Hegel deals with the Theistic Proofs, and how he connects them with the historical development of Religion. What is his idea of the Absolute Religion ?

5. Define Pantheism carefully and examine its leading positions, philosophically and theologically. Consider the relations of the systems of Spinoza, Hegel, and Schleiermacher to Pantheism.

6. Discuss Comte's alleged law of the three stages in the development of all human knowledge. Review the Positivist idea of the Religion of Humanity.

7. How is Agnosticism related to Positivism? Examine the Agnosticism of Kant *or* Herbert Spencer. Can Christian Theology accept an agnostic basis? Refer to the Ritschlian Theology, and give a reasoned answer.

(*N.B.—Only* THREE *of the following questions to be answered.*)

8. Can a unique Perfection be established by the Gospels as holding of Christ's Person and Teaching? Discuss this question apologetically as regards (1) Christ's sinlessness; (2) His claims as compared with the founders of other religions; (3) His Divinity.

9. Discuss the apologetic value of (1) Christ's Miracles; (2) His claim to be the Messiah; (3) His revelation of the Divine Fatherhood.

10. "Without belief in the Divine dignity of Christ, Christianity would never have triumphed over heathenism and the world." Discuss this view.

11. Consider the apologetic value of the Resurrection of Christ in the light of contemporary difficulties and theories.

12. Show how far a new method of treatment has been adopted by contemporary Apologetics in dealing with (1) the argument from Prophecy; (2) Christ's own Teaching regarding the Kingdom of God; (3) the nature of the Christian Revelation and Religion generally.

13. State and examine some of the chief objections that have been urged against the perfection of Christ's character, teaching, and work.

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## II.—SECOND DEPARTMENT.

## DIVINITY—THREE HOURS.

### I. THE TRINITY AND THE INCARNATION.

(THREE *questions only required.*)

1. Review the Biblical proofs or indications of the doctrines of the Trinity and the Incarnation (1) from the standpoint of the Protestant Confessions, and (2) in the light of contemporary Biblical Theology.

2. Trace the development of the doctrines of the Trinity and the Incarnation through the second and third centuries; point out the influences that determined the doctrinal ideas; and criticise Sabellianism and Dynamistic Monarchianism.

3. Indicate chronologically the most important facts in the Trinitarian controversies in the fourth century; give the distinctive positions of Arius, Athanasius, and Eusebius and Nicomedia; and review the orthodox Nicæno-Constantinopolitan dogma.

4. State and review the chief modern speculative theories of the Trinity and the Incarnation; and indicate the attitude taken towards them by the Ritschlian School.

## II. THE DOCTRINE OF SIN.

(*Three questions only required.*)

1. Give the Biblical terms used to designate Sin, with their philological meaning and connotation; examine various definitions of Sin in the light of them; account for their multiplicity; and compare the Biblical representations with those of the Pagan religions.

2. Summarise and criticise the distinctive points in (1) Pelagianism; (2) Augustinianism; (3) Semipelagianism. Compare and account for the different development of the doctrine of Sin in the Eastern and Western Church.

3. Compare the Protestant and the Tridentine views of the doctrine of Original Sin; indicate the Socinian, Arminian, and Rationalistic positions; and give a division or classification of Actual Sins, with a criticism of the distinction between Venial and Mortal Sin.

4. Examine the speculative theories of Sin worked out from Kant to Schopenhauer, and the theological views which resolve Sin into (1) Sensuousness, (2) Selfishness, (3) a supra-temporal Fall in a pre-existent state, (4) Ignorance.

## III. THE PAULINE THEOLOGY.

(*Three questions only required.*)

1. Examine (1) the connection of Paul's Theology with his own personal training and experience; (2) the various attempts to reduce it to one fundamental principle; (3) its unity and consistency as a whole; and (4) its relation to the Teaching of Jesus.

2. How does Paul establish (1) the Universality of Sin; (2) the relation of Sin and Death to the Law; (3) the relation between Adam and Christ; and (4) [illegible].

3. Outline (1) Paul's Anthropology, explaining his use of the terms Flesh and Spirit; (2) his Christology; (3) his Eschatology.

4. Summarise (1) Paul's view of Heathenism and Judaism; (2) his doctrines of Election, the Resurrection, and the Church and its offices.

## IV. CHRISTIAN ETHICS.

(*Alternative with III.*)

1. Define Christian Ethics; distinguish the subject from Philosophical Ethics; trace its development in the nineteenth century; and give a division or synopsis of the subjects it embraces. Give the divisions of Schleiermacher, Rothe, and Martensen.

2. Sketch the ethics of the Old Testament and of the Pharisaic system; and examine the objections taken to the Moral Teaching of the New Testament.

3. State the ethical views of (1) the Didache; (2) Clement of Alexandria; (3) Jerome; (4) Gregory the Great; (5) the Mediaeval Mystics; (6) the Precursors of the Reformation.

4. Summarise Martensen's views of (1) the Highest Good; (2) the chief forms of the Moral Life under the Law; (3) the relations of Christian Ethics to the Life of Sin and Grace, and to Politics and War.

## CHURCH HISTORY—Three Hours.

1. What account did Constantine give of his conversion to Christianity? When did it take place? When, and by whom, was he baptized?

2. Who were Hilary, Ulfilas, Priscillian, Lucifer of Cagliari, and Dioscoros?

3. In what sense, and with what intent, was the Homoousion adopted by the Council of Nicaea? Explain the world of difference that lies between it and the Homoiousion.

4. Sketch briefly the life of any *one* of the following: S. Basil, S. Gregory Nazianzen, S. Ambrose, or S. Jerome.

5. "In the whole history of the Church there is no Council which bristles with such astonishing facts as the First Council of Constantinople." How do you explain such a statement?

6. What was the Pelagian heresy? and under what name did the Council of Ephesus condemn it?

7. "From a historical point of view the disastrous effect of the conversion of the Goths and their kindred to the Arian form of Christianity can hardly be stated too strongly." Criticise this judgment.

8. How do you explain the facts (1) that the watchword of Nestorius was his refusal to call the Blessed Virgin Mary "Theotokos," and (2) the First Confession of the Protestants of Scotland (1560) condemns "the pestilent heresy of Nestorius?" (Art. vi.)

## BIBLICAL CRITICISM.

### *a.* TEXTUAL CRITICISM—Three Hours.

1. What are the conventions commonly used by textual critics in citing the various authorities for the text? Point out any ambiguities in these conventions.

2. Give a classification of various readings, and deduce therefrom canons for the elimination of transcriptional changes.

3. Illustrate the value of geographical considerations in estimating the evidence for the text.

4. Describe the following MSS.: Codex Sinaiticus, Codex Vaticanus, Codex Ephraemi Rescriptus, Codex Bezae, Codex Alexandrinus, noting their estimated age, their known history, and the characteristics of their peculiar readings.

5. State and criticise the Recension-theory propounded by Hug, and also that propounded by Westcott and Hort.

6. Tregelles says: Readings whose antiquity is proved apart from MSS. are found in repeated instances in a *few* of the extant copies. Explain the several parts of this statement, and show its bearing on disputed questions of Comparative Criticism.

7. What views of Comparative Criticism are represented by Tischendorf and Tregelles on the one hand, and by Burgon and Miller on the other?

8. State Tischendorf's rules for the constitution of the text of the New Testament. Give examples illustrative of each.

### *b.* HERMENEUTICS. THREE HOURS.

1. State and criticise the various opinions as to the province of Hermeneutics.

2. Is Textual Criticism a part of Hermeneutics? Justify your answer.

3. State the general causes by the operation of which several meanings have come to be attached to certain words. When a word having several meanings occurs in a passage, how is the particular meaning in that passage to be ascertained?

4. What principles must govern the use of Parallel passages?

5. State the chief points of distinction between Classic Greek and the Greek of the New Testament.

6. Mention the distinctive features observable in the style of (1) Paul, (2) James, (3) John, (4) the author of the Epistle to the Hebrews, and show that these differences must be taken into account in interpreting their works.

7. *Tropes are either necessary or free.* Explain and illustrate this statement?

8. Compare Fable, Parable, Allegory, indicating the points of likeness and of difference. Give illustrations from Scripture.

9. Give the rules for the interpretation of a Parable, and show their practical application by interpreting either (*a*) the Parables of the Two unlike Sons, the Wicked Vine-dressers, and the Marriage of the King's Son, or (*b*) the Parables of the Lost Sheep, the Lost Coin, and the Lost Son.

10. State and compare the conditions under which the Allegorical Method of Interpretation arose among (1) the Stoics, (2) the Jews of Alexandria, and (3) the early Christians.

## 7.—FOR HISTORICAL PRIZES.

### I. LUKE.

1. Account for the importance of agrarian subjects at Rome. Give an account of the principal agrarian laws passed, with dates.

2. Show to what extent the physical configuration of Italy determined the line of Roman conquest within the peninsula.

3. Compare the Roman Comitia with the Athenian Ecclesia as instruments of popular government.

4. How far has the traditional history of early Rome been affected by the results of modern archaeological research?

5. Enumerate the principal elements which contributed to the breakdown of the old Republican system in Rome, and which rendered some form of monarchy inevitable.

6. Discuss the gain or loss resulting to Rome, to Italy, and the Empire as a whole, from the supersession of the Republic by the Empire.

7. State the exact dates, circumstances, and results of the following battles :—Mylae, Heraclea, Lake Regillus, Mount Vesuvius, the Aegatian isles, Trebia, Mount Gaurus, Magnesia, Pydna, Zama.

8. What were the privileges and duties of the Equestrian Order at Rome at different times? What changes did that body undergo at different times, and with what political results?

9. Draw a map of Rome showing the position of (*a*) the Servian Wall, and (*b*) the walls of Aurelian.

10. Describe shortly the frontier of the Roman Empire at the time of the death of Augustus, and give the names of the various frontier provinces in order; indicating roughly the modern countries to which they respectively correspond.

11. Describe the usual methods adopted by Rome in the treatment of conquered countries.

## II. GLADSTONE.

### FIRST PAPER.

1. "The Roman occupation of Britain had no influence on the subsequent history of the island." Criticise this statement.

2. Follow carefully the progress of Celtic Christianity in England down to the Synod of Whitby, and point out the main reasons of its failure.

3. Indicate, by a sketch-map or otherwise, the distribution of races in Great Britain about 1000 A.D., and also the political divisions then subsisting.

4. "The more the power of the Anglo-Saxon King was circumscribed the greater became his theoretical claims." Illustrate and account for this.

5. Give an account of the form in which the Domesday survey exists, and show how it illustrates William's conception of the nature and rights of his kingship.

6. "Consolidation, not revolution, is the characteristic of the reign of Henry II. Discuss this statement.

7. How far did Simon de Montfort fairly represent English aspirations?"

8. Can you justify Edward I.'s invasion of Scotland?

9. To what extent can the continuous existence of two political parties be traced during the reigns of Edward III. or Richard II.?

10. Can Wycliff's social teaching be held responsible for the political movements of the first half of the fifteenth century?

11. Illustrate and account for the development of the powers of the House of Commons under the Lancastrians.

12. Examine the character of Edward IV. as a representative of the political ideas of his time.

## SECOND PAPER

1. In what respects did the foreign policy of Henry VII. anticipate the leading features of that pursued by Wolsey and Elizabeth?

2. To what extent was the English Reformation under Henry VIII promoted by the revival of letters?

3. Estimate the danger to Elizabeth's government from the attitude of Mary Queen of Scots.

4. Compare the position of a Catholic recusant under Elizabeth with that of a Protestant Nonconformist in the days of Charles II.

5. What change has taken place in English Puritanism between the years 1604-1640?

6. Was the government of James I. and Charles I. more arbitrary than that of the Tudors?

7. The Revolution of 1689 "was rendered possible, or at least bloodless, by an amount of aggravated treachery, duplicity, and ingratitude seldom surpassed in history." Discuss this statement.

8. "At the beginning of the eighteenth century an extension of the franchise would have been premature, at the end of the century it was absolutely necessary." Comment on this saying.

9. Illustrate and account for the low state of political morality during the larger part of the eighteenth century.

10. Account for the failure of parliamentary independence (1782-1800) in Ireland.

11. What was the influence of the writings of Adam Smith upon practical politics in the eighteenth century?

12. Estimate the extent and examine the cause of the discontent of the working classes at the beginning of the nineteenth century.

# *XIII.—VACATION EXERCISES, Etc.*

## FOR 1901-2.

## HEBREW AND SEMITIC LANGUAGES.

Prizes are offered :

1. For an original composition in Hebrew.
2. For readings in the Old Testament Scriptures.
3. For *viva voce* repetition of selected passages.

Professions to be given in, in writing, not later than 8th Nov., 1901.

## MORAL PHILOSOPHY CLASS.

A prize is offered for the best examination on Plato's *Republic* (Davies and Vaughan's translation). Students are recommended to read Bosanquet's *Companion to Plato's Republic* and vol. ii. of Nettleship's *Philosophical Lectures and Remains* in connection with the translation. The competition is open to students entering the ordinary Moral Philosophy Class in Session 1901-2.

## LOGIC CLASS.

(*For Students of the Logic Class, Sessions* 1899-1900 *or* 1900-1901.)

Two prizes are offered : (1) one for an examination in early Greek (pre-Platonic) Philosophy. [Books recommended : Ritter and Preller's *Historia Philos. Græcæ* ; Burnet's *Early Greek Philosophy* ; Zeller's *Pre-Socratic Greek Philosophy.*]

(2) For an examination in Leibniz's Metaphysic and Theory of Knowledge. [Books recommended : *Leibniz' Monadology*, by Latta ; Leibniz, *La Monadologie*, ed. by Boutroux.]

## ENGLISH LITERATURE.

### WOMEN'S DEPARTMENT.

Aristotle's *Poetics* ; Longinus, *On the Sublime* ; Sidney's *Apologie for Poesie* ; Johnson's *Preface to Shakspeare* ; Burke, *On the Sublime and Beautiful* ; Lessing's *Laocoon* ; Wordsworth's *Prefaces* ; Shelley's *Defence of Poetry.* General essay questions dealing with Aesthetics will be set. The examination is open both to students of Session 1900-1901 and to intending members of the Class of 1901-2. There are separate prizes for the students of the different sessions, but the Examiner reserves the right not to award any prize unless the answers reach a standard sufficiently high.

## GREEK CLASSES

Open to any Member of the Greek Class, Sessions 1900-1901 and 1901-2.

1. For Attic Prose—Shelley, Preface to *Hellas*.

2. To learn by heart Plato, *Symposium*, 201 d—212 c (i.e. XXII.–XXIX.).

3. To learn in the same way *Iliad* XXII.

4. A written examination in Aeschylus, *Choephoroe*, to be held in October, 1900.

5. A written examination in Holm's *History of Greece*, vols. II. and III.

The same student may enter for all the above competitions. Several prizes may be given for each competition. Junior students will be judged on a more lenient standard.

The prose to be sent in by 24th October, 1901.

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## HUMANITY CLASS

Prizes will be given for Vacation Exercises as follows:

I. Open to all members of the Middle Class of 1900-1901 for the best examination in the following subjects:—
   1. Livy, Book XXIII.
   2. Virgil, *Aeneid* IV.

II. Open to all members of the Senior Class of 1901-2:—
   To learn by heart Virgil, *Georgic* I., lines 1—258.

III. Open to all members of the Senior or Honours Class of 1900-1901:—
   1. For Latin Prose—A Short Latin Essay of about ten MS. pages on the following subject: "Namque spreta exolescunt: si irascare, agnita videntur."
   2. To learn by heart Horace, *Odes* III.

The examinations in the above subjects will be held early in November, 1901. The exercises must be sent in to the Professor on or before 1st November. Each exercise must bear a motto, and be accompanied by an envelope bearing the same motto, with the writer's name inside, together with a statement that the exercise is his own unaided work.

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## CLASS OF BOTANY.

A prize is offered to matriculated students who have passed through the Class of Botany in the University or Queen Margaret College, for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous Plants, to be named after Hooker's *Students' Flora of the British Islands*. The specimens must have been collected upon the mainland of Scotland, or upon the Scottish Islands, between 20th April, 1900, and 15th October, 1901, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 15th October, 1901, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself in Scotland, and within the period above stated, and that they have been named by him without assistance, save that derived from books on Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

Students of the first year in Botany are informed that a similar prize will be offered in October, 1902, and are advised to begin collecting for that competition in April, 1901.

## *XIV.—ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT.*

From 1st June, 1900, to 30th September, 1900.

**5th June, 1900.**—The Court met. Present—Sir John N. Cuthbertson (in the chair); Alexander Ure, Q.C., M.P.; D. C. M'Vail, M.B.; Sheriff Berry, LL.D.; Professor Stewart, Professor Adamson, and Professor Young. The resignations of Professor Sir Wm. Gairdner, K.C.B., from the Chair of Practice of Medicine, and of Professor A. C. Bradley from the Chair of English Language and Literature, were received and accepted, in each case the resignation to take effect from 30th September, 1900. The Court resolved to Minute an expression of their regret and of their sense of the loss sustained by the University by the resignation of these gentlemen. The Court appointed Alfred H. Carter, Professor of Medicine, Mason University College, Birmingham, to be examiner in Practice of Medicine for degrees in medicine till 31st December, 1903.

**14th June, 1900.**—The Court met. Present—The Very Rev. Principal Story, D.D., LL.D. (in the chair); Sir James King, Bart.; Alex. Ure, Q.C., M.P.; Sir J. N. Cuthbertson, LL.D.; D. C. M'Vail, M.B.; Sheriff Berry, LL.D.; Professor Stewart, Professor Adamson, and Professor Young. Minute of meeting of Works Committee of 11th June was read and approved, dealing *inter alia* with various repairs on the buildings to be carried out during the summer and with relaying of roadway in Professors' Quadrangle. Minute of meeting of Finance Committee of 12th June was read and approved, dealing *inter alia* with Investment of University and Foundation Funds, Insurance of New Buildings, and Insurance under the Workmen's Compensation Act, 1897. The various lecturers at Gilmorehill and Queen Margaret College were reappointed as from 1st October next. The Court approved of certain regulations drawn up for the "Mackinnon" scholarship of £50 per annum in (1) geology, (2) natural history with comparative anatomy, and (3) modern foreign languages, for publication in the calendar. The Court sanctioned 40 meetings of the class of Philosophy of Law as a half course for the purposes of the special case under Ordinance No. 160 for honours in Economic Science. The preliminary and degree examination papers set at the recent examinations were laid on the table. The Court resolved to request the Business Committee of the General Council to confer with them in order to consider what steps can be taken to promote the fuller equipment of the University, more especially in the departments of science and medicine.

**12th July, 1900.**—The Court met. Present—The Very Rev. Principal Story, D.D., LL.D. (in the chair); the Lord Provost; R. M. Mitchell; W.

R. Copland; Sir J. N. Cuthbertson, LL.D.; D. C. M'Vail, M.B.; Sheriff Berry, LL.D.; Professor Stewart, Professor Adamson, and Professor Young. Minute of meeting of Works Committee of 6th July, 1900, was read and approved, dealing *inter alia* with plans for proposed new Surgery department. Minute of meeting of Finance Committee of 10th July was read and approved, dealing *inter alia* with examiners and tutorial class fees and tradesmen's accounts. The Court approved of a Draft Ordinance for alteration of Ordinance 134 to the effect of substituting the West of Scotland Agricultural College for the Glasgow and West of Scotland Technical College. On the recommendation of the Recognition Committee the Court agreed to recognise the lectures of Professor J. C. Beattie and Professor P. D. Hahn, both of the South African College, on Natural Philosophy and Chemistry respectively for the purpose of graduation. The Court appointed Professor G. P. Thistlethwaite, of the University of Halle, as lecturer on German in the University of Glasgow for one year from 1st October next. The Court appointed the Rev. Robert Pattie, B.D., Preliminary Examiner in Hebrew till 31st December, 1903. The secretary was instructed to advertise the vacancy in the Chair of Clinical Medicine, applications to be received by 12th September and considered at the Court's meeting on 4th October. It was resolved that the meetings of the University Court be open to press reporters except in cases where for any reason it is expedient for the Court to sit in private. Dr. Magnus Maclean, Professor of Physics in the Glasgow and West of Scotland Technical College, was appointed Lecturer in Celtic under the M'Callum Bequest for next year.

Since 1st October, 1900, the Minutes of the Court have been printed.

# XV.—FINANCIAL STATEMENT OF THE UNIVERSITY FOR 1899-1900.

## INCOME.

| | | |
|---|---|---|
| I. Teinds, Feu-duties, Ground Annuals, Dividends, and Interest (including Queen Margaret College, £855 12s. 2d.), | | £12,381 3 7¼ |
| II. Parliamentary Grant— | | |
| (*a*) Under Universities Act, . . . . | £12,180 0 0 | |
| (*b*) Under Education and Local Taxation Act, . . . . . | 8,700 0 0 | |
| | | 20,880 0 0 |
| III. Special Endowments— | | |
| (*a*) Chairs, . . . . . | £1,956 4 6 | |
| (*b*) Lectureships, . . . | 583 3 6 | |
| (*c*) Demonstratorships, etc., . . . . | 183 7 8 | |
| | | 2,722 15 8 |
| IV. Class Fees— | | |
| (*a*) Constituting the Fee Fund (including Queen Margaret College, £2,260 13s.), . . . . . . | £16,879 5 6 | |
| (*b*) Other Classes, . . | 838 0 10 | |
| | | 17,718 6 4 |
| V. Other Fees— | | |
| (*a*) Matriculation (including Queen Margaret College, £351 9s. 6d.), . . . | £2,072 17 0 | |
| (*b*) Examination and Graduation (including Queen Margaret College, £570 3s.), . . . . . . . | 4,441 13 6 | |
| (*c*) Registration (including Queen Margaret College, £30), . . . . . | 234 0 0 | |
| (*d*) Recognition towards expenses of inspection, . . . . . . . | 10 10 0 | |
| | | 6,759 0 6 |
| VI. Library— | | |
| (*a*) Subscriptions, . . . . . . . | £62 9 6 | |
| (*b*) Revenue of Legacy Funds, . . . | 48 0 0 | |
| (*c*) Annual Grant from M'Callum Fund for Celtic Library, . . . . . | 10 0 0 | |
| (*d*) Students' Catalogue, . . . . . | 2 12 0 | |
| | | 123 1 6 |
| Carry forward, . . . . . . . . . | | £60,584 7 7¼ |

| | | | |
|---|---|---|---|
| Brought forward, | | | £60,584 7 7¾ |
| VII. Grants for Special Purposes— | | | |
| 1. By the Bellahouston Trustees— | | | |
| (*a*) Library, | £100 0 0 | | |
| (*b*) Hunterian Museum, | 100 0 0 | | |
| (*c*) Natural Philosophy, | 100 0 0 | | |
| (*d*) Chemistry, | 100 0 0 | | |
| (*e*) Astronomy, | 50 0 0 | | |
| (*f*) Botany (including £2000 received in 1898-99), | 6,200 0 0 | | |
| (*g*) Civil Engineering, | 12,500 0 0 | 19,150 0 0 | |
| 2. By James B. Thomson's Trustees— Anatomy, | | 11,000 0 0 | 30,150 0 0 |
| | | | £90,734 7 7¾ |
| Over-Expenditure for 1899-1900, | | | 337 13 5 |
| | | | £91,072 1 0¾ |

## EXPENDITURE.

| | | |
|---|---|---|
| I. University Court and Senate— | | |
| (*a*) Secretary of University Court (including outlays, £76 4s. 7d.), | £376 4 7 | |
| (*b*) Clerk of Senate, | 262 10 0 | |
| (*c*) Assistants to Clerk of Senate (including incidental expenses, £78 14s. 9d.), | 557 4 9 | £1,195 19 4 |
| II. General Council— | | |
| (*a*) Registration, | £98 9 3 | |
| (*b*) Clerk, | 50 0 0 | |
| (*c*) Printing and Outlays, per Clerk, | 120 7 0 | 268 16 3 |
| III. Business— | | |
| (*a*) Factors (including outlays, £69 8s.), | £701 6 0 | |
| (*b*) Auditors, | 31 10 0 | |
| (*c*) Law Agents, | 84 12 2 | 817 8 2 |
| IV. Ministers' Stipends, | | 1,568 5 10 |
| V. Pension Fund, | | 4,000 0 0 |
| VI. Salaries— | | |
| (*a*) Principal, | £1,100 0 0 | |
| (*b*) Professors under Ordinance No. 25, | 23,843 10 1 | |
| (*c*) Other Professors, | 2,060 2 6 | |
| (*d*) Lecturers (including £1,600 at Queen Margaret College), | 4,406 12 1 | |
| (*e*) Assistants and Demonstrators (including £737 18s. at Queen Margaret College), | 5,781 17 4 | |
| (*f*) Examiners (including expenses, £142 10s. 4d.), | 1,367 15 8 | 38,559 17 11 |
| Carry forward, | | £46,410 7 6 |

| | | |
|---|---|---|
| Brought forward, | | £46,410 7 6 |
| VII. Library, | | 1,801 19 9 |
| VIII. Museum, | | 660 8 11 |
| IX. Observatory, | | 351 12 3 |
| X. University Buildings— | | |
| (a) Maintenance, | £2,652 7 5½ | |
| (b) Lighting, | 327 18 8 | |
| (c) Heating and Ventilating, | 934 17 5 | |
| (d) Water, | 108 3 4 | |
| (e) Pathological Institute at Western Infirmary | 331 19 10 | |
| | | 4,355 6 8½ |
| XI. Insurance, | | 307 17 3 |
| XII. Service, Cleaning, and Upkeep of Grounds, | | 1,583 17 5 |
| XIII. Class Expenses, Apparatus, etc.— | | |
| (a) Prizes and Medals, | £208 3 10 | |
| (b) Lantern Slides, | 84 18 7 | |
| (c) Apparatus for Laboratories, etc., | 410 6 5 | |
| (d) Class Expenses, | 1,682 8 8 | |
| | | 2,385 17 6 |
| XIV. Printing, Stationery, and Advertising, | | 1,076 1 1 |
| XV. Chapel, | | 101 15 10 |
| XVI. Bursaries, | | 143 0 0 |
| XVII. Public Burdens, Taxes, etc. (including £21 to Glasgow Police), | | 731 2 7¾ |
| XVIII. Taxes, Repairs on Buildings, Lighting, Heating, Service, etc., at Queen Margaret College, | | 889 2 11 |
| XIX. Students' Representative Council, | | 20 0 0 |
| XX. Miscellaneous, | | 103 11 4 |
| XXI. Purposes of Thomson and Bellahouston Grants (including sums still to be expended), | | 30,150 0 0 |
| | | £91,072 1 0¼ |

# PARTICULARS OF SUMS DEVOTED TO THE MAINTENANCE OF THE TEACHING STAFF AND OF EXAMINERS.

## FACULTY OF ARTS.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Humanity, | £1,430 0 0 | £83 5 6 | £475 0 0 | £1,988 5 6 |
| Greek, | 1,000 0 0 | .. | 375 0 0 | 1,375 0 0 |
| English, | 900 0 0 | 217 17 6 | 120 0 0 | 1,237 17 6 |
| French, | ... | 300 0 0 | ... | 300 0 0 |
| German, | ... | 200 0 0 | ... | 200 0 0 |
| Logic, | 800 0 0 | 100 0 0 | 100 0 0 | 1,000 0 0 |
| Moral Philosophy, | 800 0 0 | 100 0 0 | 100 0 0 | 1,000 0 0 |
| Political Economy, | 600 0 0 | ... | ... | 600 0 0 |
| Education, | ... | 200 0 0 | ... | 200 0 0 |
| Mathematics, | 1,440 0 0 | 95 9 8 | 475 0 0 | 2,010 9 8 |
| Natural Philosophy, | 1,000 0 0 | 100 0 0 | 540 0 10 | 1,640 0 10 |
| History, | 900 0 0 | ... | ... | 900 0 0 |
| Political Philosophy, | ... | 50 0 0 | ... | 50 0 0 |
| | £8,870 0 0 | £1,446 12 8 | £2,185 0 10 | £12,501 13 6 |

## FACULTY OF SCIENCE.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Astronomy, | £600 0 0 | ... | ... | £600 0 0 |
| Civil Engineering, | 900 0 0 | £24 11 5 | £397 0 0 | 1,321 11 5 |
| Naval Architecture, | 800 0 0 | ... | 115 2 5 | 915 2 5 |
| Geology, | ... | 230 0 0 | 96 0 0 | 326 0 0 |
| Metallurgical Chemistry, | ... | 4 14 6 | ... | 4 14 6 |
| | £2,300 0 0 | £259 5 11 | £608 2 5 | £3,167 8 4 |

## FACULTY OF MEDICINE.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Botany, | £830 0 0 | ... | £283 6 8[1] | £1,113 6 8 |
| Natural History, | 806 0 0 | ... | 237 18 0 | 1,043 18 0 |
| Physics,[2] | ... | ... | 50 0 0 | 50 0 0 |
| Chemistry, | 1,300 0 0 | £183 1 6 | 461 6 10 | 1,944 8 4 |
| Anatomy, | 1,645 0 0 | 450 0 0 | 570 0 0 | 2,665 0 0 |
| Physiology, | 1,100 0 0 | ... | 300 0 0 | 1,400 0 0 |
| Materia Medica, | 700 0 0 | 150 0 0 | 100 0 0 | 950 0 0 |
| Pathology, | 1,100 0 0 | 150 0 0 | 250 0 0 | 1,500 0 0 |
| Medical Jurisprudence, | 600 0 0 | ... | 100 0 0 | 700 0 0 |
| Surgery, | 800 0 0 | 100 0 0 | 190 0 0 | 1,090 0 0 |
| Clinical Surgery, | 286 5 1 | ... | 46 2 7 | 332 7 8 |
| Practice of Medicine, | 800 0 0 | 100 0 0 | 150 0 0 | 1,050 0 0 |
| Clinical Medicine, | 432 0 0 | ... | 50 0 0 | 482 0 0 |
| Midwifery, | 700 0 0 | ... | 100 0 0 | 800 0 0 |
| Insanity, | ... | 150 0 0 | ... | 150 0 0 |
| Diseases of the Eye, | ... | 175 0 0 | ... | 175 0 0 |
| Diseases of the Ear, | ... | 52 10 0 | ... | 52 10 0 |
| Diseases of the Throat, | ... | 52 10 0 | ... | 52 10 0 |
| | £11,099 5 1 | £1,563 1 6 | £2,888 14 1 | £15,551 0 8 |

[1] Includes £25 for a previous session.

[2] Included under Natural Philosophy.

## FACULTY OF LAW.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Scots Law, | £800 0 0 | — | | £800 0 0 |
| Conveyancing, | 600 0 0 | | | 600 0 0 |
| Jurisprudence,<br>Public International Law,<br>International Private Law, | | £300 0 0 | | 300 0 0 |
| Constitutional Law and History, | | 300 0 0 | | 300 0 0 |
| Civil Law, | | 300 0 0 | | 300 0 0 |
| Mercantile Law, | | 200 0 0 | | 200 0 0 |
| | £1,400 0 0 | £1100 0 0 | | £2,500 0 0 |

## FACULTY OF THEOLOGY.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Divinity, | £520 5 10 | | | £520 5 10 |
| Hebrew and Semitic Languages, | 700 0 0 | £37 12 0 | £100 0 0 | 837 12 0 |
| Church History, | 429 19 7 | | | 429 19 7 |
| Biblical Criticism, | 584 2 4 | | | 584 2 4 |
| | £2,234 7 9 | £37 12 0 | £100 0 0 | £2,371 19 9 |

## SUMMARY.

| | Professors. | Lecturers. | Assistants or Demonstrators. | Total. |
|---|---|---|---|---|
| Faculty of Arts, | £8,870 0 0 | £1,446 12 8 | £2,185 0 10 | £12,501 13 6 |
| Faculty of Science, | 2,300 0 0 | 259 5 11 | 608 2 5 | 3,167 8 4 |
| Faculty of Medicine, | 11,099 5 1 | 1,563 1 6 | 2,888 14 1 | 15,551 0 8 |
| Faculty of Law, | 1,400 0 0 | 1,100 0 0 | | 2,500 0 0 |
| Faculty of Theology, | 2,234 7 9 | 37 12 0 | 100 0 0 | 2,371 19 9 |
| | £25,903 12 10 | £4,406 12 1 | £5,781 17 4 | £36,092 2 3 |

## EXAMINERS FOR DEGREES, ETC.

| | | |
|---|---|---|
| I. Preliminary Examinations— | | |
| (*a*) Examiners, | £207 7 0 | |
| (*b*) Members of Joint Board, | 84 0 0 | |
| | | £291 7 0 |
| II. Degree Examinations— | | |
| (*a*) Examiners in Arts and Science, | £358 5 0 | |
| (*b*) Examiners in Medicine, | 491 13 4 | |
| (*c*) Examiners in Law, | 63 0 0 | |
| (*d*) Examiners in Theology, | 31 10 0 | |
| | | 944 8 4 |
| III. Expenses— | | |
| (*a*) Examiners, | £14 15 6 | |
| (*b*) Joint Board, | 79 17 10 | |
| (*c*) Superintendence, etc., | 37 7 0 | |
| | | 132 0 4 |
| | | £1,367 15 8 |

## CLASS FEES.

| | | | | | | |
|---|---|---|---|---|---|---|
| I Faculty of Arts— | | | | | | |
| Humanity, | £800 | 2 | 0 | | | |
| Greek, | 501 | 18 | 0 | | | |
| English, | 779 | 2 | 0 | | | |
| French. | 142 | 16 | 0 | | | |
| German, | 91 | 7 | 0 | | | |
| Hebrew, | 142 | 16 | 0 | | | |
| Logic, | 485 | 2 | 0 | | | |
| Moral Philosophy, | 519 | 15 | 0 | | | |
| Political Economy, | 185 | 17 | 0 | | | |
| Education, | 579 | 12 | 0 | | | |
| Philosophy of Law, | 3 | 3 | 0 | | | |
| Mathematics, | 845 | 5 | 0 | | | |
| Natural Philosophy, | 458 | 17 | 0 | | | |
| Chemistry, | 183 | 15 | 0 | | | |
| Botany, | 66 | 3 | 0 | | | |
| Zoology, | 33 | 12 | 0 | | | |
| Astronomy, | 2 | 2 | 0 | | | |
| History, | 321 | 6 | 0 | | | |
| Constitutional Law, | 22 | 1 | 0 | | | |
| Roman Law, | 84 | 0 | 0 | | | |
| Public Law, | 12 | 12 | 0 | | | |
| | | | | £6,261 | 3 | 0 |
| II. Faculty of Science— | | | | | | |
| Astronomy, | £15 | 15 | 0 | | | |
| Engineering, | 514 | 10 | 0 | | | |
| Naval Architecture, | 252 | 0 | 0 | | | |
| Geology, | 46 | 4 | 0 | | | |
| Mathematics, | 264 | 12 | 0 | | | |
| Natural Philosophy, | 342 | 6 | 0 | | | |
| Chemistry, | 447 | 6 | 0 | | | |
| Botany, | 45 | 3 | 0 | | | |
| Zoology, | 53 | 11 | 0 | | | |
| Physiology, | 31 | 10 | 0 | | | |
| Anatomy (including Embryology), | 43 | 1 | 0 | | | |
| | | | | 2,055 | 18 | 0 |
| III. Faculty of Medicine— | | | | | | |
| Botany, | £633 | 3 | 0 | | | |
| Zoology, | 596 | 8 | 0 | | | |
| Physics, | 328 | 13 | 0 | | | |
| Chemistry, | 690 | 18 | 0 | | | |
| Anatomy (including Embryology), | 1,584 | 19 | 6 | | | |
| Physiology, | 588 | 0 | 0 | | | |
| Materia Medica, | 562 | 16 | 0 | | | |
| Pathology, | 701 | 8 | 0 | | | |
| Forensic Medicine, | 381 | 3 | 0 | | | |
| Carry forward, | £6,067 | 8 | 6 | £8,317 | 1 | 0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Brought forward, | | | | £8,317 | 1 | 0 |
| Faculty of Medicine—*continued*. | £6,067 | 8 | 6 | | | |
| Surgery, | 498 | 15 | 0 | | | |
| Clinical Surgery, | 66 | 7 | 10 | | | |
| Practice of Medicine, | 216 | 6 | 0 | | | |
| Clinical Medicine, | 234 | 0 | 0 | | | |
| Midwifery, | 418 | 19 | 0 | | | |
| Insanity, | 212 | 2 | 0 | | | |
| Eye, | 21 | 0 | 0 | | | |
| Ear, | 61 | 19 | 0 | | | |
| Throat and Nose, | 87 | 3 | 0 | | | |
| | | | | 7,884 | 0 | 4 |
| IV. Faculty of Law— | | | | | | |
| Law, | £472 | 10 | 0 | | | |
| Conveyancing, | 260 | 8 | 0 | | | |
| Constitutional Law and History, | 17 | 17 | 0 | | | |
| Civil Law, | 29 | 8 | 0 | | | |
| Jurisprudence, | 18 | 18 | 0 | | | |
| Public International Law, | 34 | 13 | 0 | | | |
| International Private Law, | 50 | 8 | 0 | | | |
| Political Economy, | 6 | 6 | 0 | | | |
| Forensic Medicine, | 53 | 11 | 0 | | | |
| Mercantile Law, | 52 | 10 | 0 | | | |
| | | | | 996 | 9 | 0 |
| V. Faculty of Theology— | | | | | | |
| Divinity, | £126 | 0 | 0 | | | |
| Church History, | 91 | 7 | 0 | | | |
| Biblical Criticism, | 78 | 15 | 0 | | | |
| Hebrew (see under Faculty of Arts), | | | | | | |
| | | | | 296 | 2 | 0 |
| VI. Summer Tutorial Classes, | | | | 242 | 11 | 0 |
| | | | | £17,736 | 3 | 4 |
| Deduct Fees returned, | | | | 17 | 17 | 0 |
| | | | | £17,718 | 6 | 4 |

## APPENDIX—I.

# *LIST OF MEMBERS*

INCLUDED IN

# THE REGISTER

OF

# THE GENERAL COUNCIL

## *FOR THE YEAR COMMENCING 1st JANUARY,* 1901,

WITH ABBREVIATED ADDRESSES, ETC.

*N.B.*—So far as information has been available down to the time of publishing the Calendar, addresses, etc., have been corrected, and names of deceased Members removed. Members are requested to intimate to the Registrar any change of designation (*i.e.*, profession or calling), or of permanent address. Representatives of deceased Members are also requested to make intimation, in order that the names of such Members may be removed.

Abbott, John C., M.B., C.M., 159 Lichfield rd., Aston, Birmingham
Abdurahman, Abdullah, M.B., C.M., Cape Town, S. Africa
Abercrombie, Peter H., M.D., C.M., 10 Coburg place, London, W.
Abercrombie, Ralph, M.A., minister, Goole
Abernethy, Wm., M.A., tch., West Coats School, Cambuslang
Adam, Alex., M.B., C.M., Glasgow
Adam, Basil J., M.B., C.M., Beaufort, Victoria
Adam, David S., B.D., minister, 42 Margaret st., Greenock
Adam, Hector M., B.D., min., 20 Hamilton pl., Aberdeen
Adam, Jas., M.A., tch., 218 Gt. Westn. rd., Glas.
Adam, James, M.A., M.D., C.M., Hamilton
Adam, James, M.B., C.M., 60 Causeyside, Paisley
Adam, James, LL.B., stud., Castlehead, Paisley
Adam, James A., M.A., U.P. minister, Ellon
Adam, John, M.B., C.M., 2 N. Smithhills, Paisley
Adam, John, M.B., C.M., 1 Caroline st., Forres
Adam, John E., M.B., C.M., Westgrove, Kilnhurst, Rotherham
Adam, John W., M.B., C.M., Tarbolton
Adam, Matt. A., B.Sc., eng., 18 Southampton bdgs., London
Adam, Peter, B.D., min., Alford, Aberdeen
Adam, Robert H., M.A., M.D., C.M., 125 Newport st., Bolton
Adam, Thomas, M.A., minister, Cumbernauld
Adam, Thomas, M.A., stud., Westgrove, Kilnhurst
Adam, Thos. B., M.D., C.M., 37 Church st., Brechin
Adam, William J., M.B., C.M., 138 Acre lane, London, S.W.
Adam, Wm. T., M.B., C.M., 48 London rd., Carlisle
Adams, Geo. S., M.A., stud., Gilbertfield, Hamilton
Adams, Jas. A., M.D., C.M., 5 Woodside cr., Glas.
Adams, John, M.A., B.Sc., rector, F.C. Training Coll., Glasgow
Adams, John, B.D., min., Inverkeillor, Arbroath
Adams, John, M.B., C.M., 1 Queen's cr., Glasgow
Adams, John E., B.D., min., F.C., Dreghorn
Adamson, Jas., M.D., Hetton-le-Hole, Fencehouses
Adamson, James, M.A., minister, Maree, N.S.W.
Adamson, Kilgour, M.B., C.M., Rectory, Armoy
Adamson, Robert, LL.D., prof., Univ., Glasgow
Adamson, Wm. F., M.A., minister, Galashiels
Addie, John, M.A., min., Wilson Church, Perth
Affleck, John, M.A., D.Sc., Inspector of Chemical Works, Woolton
Agnew, Alex. P., M.B., C.M., Padiham, Lancs.
Agnew, Jas. F., M.B., C.M., 13 Muir st., Richmond, Melbourne
Agnew, James M., minister, Longhope, Orkney
Agnew, Rbt. R., M.A., tch., 11 Hopetoun place, Glasgow.
Aiken, James, M.A., assist. min., St. Andrew's cottage, Cowdenbeath
Aiken, James, M.A., writer, Dalmoak
Aiken, John B., M.A., writer, Dalmoak
Aikman, Chas. B., writer, 208 W. George st., Glas.
Aikman, Chas. M., M.A., D.Sc., chemist, Stirling
Aikman, John, M.D., C.M., Queen's rd., Guernsey
Aikman, Mat., M.A., M.B., Ch.B., 39 Cecil st., H'lh'd.
Ainslie, Jas. L., M.A., stud., 20 Kelso rd., Leeds
Ainsworth, Wm. T., M.B., C.M., Shipley, Yorks.
Aird, Alex. W., M.B., C.M , Newmilns
Aird, Robert, M.A., tch., Tarbert, Loch Fyne
Aitchison, Jas., B.Sc., eng., 3 Barone rd., Rothesay
Aitken, David, M.A., tch., Academy, Motherwell
Aitken, George J., M.A., tch., York av., J'danhill
Aitken, Geo. R., M.A., min., O.S. Manse, K'kint'loch
Aitken, James, M.A., minister, Valparaiso
Aitken, Jas., M.B., C.M., 15 Dalton sq., Lancaster
Aitken, Jas., M.B., C.M., High road, Ilford
Aitken, James A., M.B., C.M., 24 Abbotsford pl., Glasgow
Aitken, James R., M.A., min., Bushmead avenue, Bedford

Aitken, John, M.B., Ch.B., 328 St. George's rd., Glas.
Aitken, John, M.D., C.M., Buckhaven
Aitken, John R., LL.B., 2 Woodlands ter., Glas.
Aitken, Patrick H., B.Sc., B.D., min., 47 Arlington street, Glasgow
Aitken, Robert, B.D., prob., Redhurst, Dalry
Aitken, Robert, B.L., writer, Mound pl., Edinb'gh
Aitken, Robt. [illegible], C.A., [illegible] St. Vincent st., Glasgow
Aitken, Robert Y., M.D., C.M., Carsehead, Dalry, Ayrshire
Aitken, Thos. M., B.Sc., eng., Netherlea, [illegible]
Aitken, Wm. B., M.B., C.M., James Town, [illegible]
Aitkenhead, Robert, M.B., C.M., High Blantyre
Aiton, Thomas, B.A., min., Livingston, Midcalder
Aiton, Wm., B.L., law agt., 115 St. Vincent st., Glasgow
Alexander, Andw., M.A., surg., Blaydon-on-Tyne
Alexander, Arch., M.A., min., Spittal, Berwick
Alexander, Arch. B. D., M.A., min., Langbank
Alexander, Archibald S., M.D., C.M., [illegible] terrace, Plymouth
Alexander, Charles A., M.B., C.M., Denny
Alexander, David R., B.D., prob., [illegible], Partick
Alexander, Geo., M.B., Ch.B., 207 Caledonian rd., London, N.
Alexander, Gilchrist G., M.A., barr., 2 Plowden buildings, Temple, London, E.C.
lexander, James, M.D., C.M., Galston
lexander, John, M.A., min., Sandbank pl., Partick
lexander, John, M.A., minister, Pitcairn, Perth
lexander, John B., M.A., min., Hawaiian Islands
lexander, Robert, minister, Dunfermline
lexander, Sam., M.D., C.M., 244 Paisley rd., Ibrox
lexander, Sam. P., M.D., C.M., Kent rd., Southsea
lexander, Thos., M.A., stu., 22 Atholl st., Perth
lexander, Walter, M.A., min., F.C. manse, Kirkmaiden
lexander, William H. M., M.B., C.M., Ugie Brae, Old Deer
lexander, William, M.D., C.M., Dundonald
lexander, William, M.B., C.M., 10 Portland ter., Kilmarnock
lexander, William M., B.Sc., B.D., M.D., C.M., 75 Armadale st., Glasgow
lison, Sir A., Bart., K.C.B., LL.D., general, 93 Eaton place, London
lison, Arthur, advocate, [illegible] Moray pl., Edinburgh
lison, George, minister, Kilbarchan
lison, John, M.A., D.D., min., Newington, Edinb'h
lan, Alex., M.A., tch., 29 Albert st., Coatbridge
lan, Alex. S., M.B., Ch.B., 51 Brown st., N'milns
lan, Arthur, M.A., minister, Manse, Fairlie
lan, Arthur W., B.L., writer, Muirfield, Pollokshields
lan, Chas., M.A., min., Duncira, Greenock
lan, Geo. F., LL.B., writ., 6 Loudon ter., Hillhead
lan, Henry, M.A., shipowner, 2 Park gns., Glas.
lan, Jas., M.A., tch., 172 Perth road, Dundee
lan, James Paul, M.D., Renfrew
lan, James W., M.B., C.M., 18 India st., Glasgow
lan, John, M.D., C.M., Johannesburg
lan, John, M.A., surv. taxes, 16 Rillb'nk ter., Edin.
lan, John, M.B., C.M., Glenfield, Dumbarton
lan, Robert, M.D., C.M., 6 Arran pl., Ardrossan
lan, Wm., M.B., C.M., Gothic cottage, Govan
an, William, M.A., stud., 327 Duke st., Glasgow
an, Wm., M.D., C.M., 37 Union st., Greenock

Allan, Wm., B.Sc., C.E., Elderslie ho., Strathaven
Allan, Wm., M.B., C.M., Cramlington, Northumberland
Allan, Wm. C., M.D., C.M., Klerksdorp, Transvaal
Allan, William C., M.A., min., Par. Ch., Bradford
Allardice, Wm. C., M.D., C.M., N.S. Infirm., Stoke-on-Trent
Allardyce, John M., M.A., missionary, Pekin
Allen, Robt. H., M.B., C.M., 207 Gipsy la., Lond., E.
Allen, Wm., M.B., C.M., [illegible] gdns., Lond.
Allen, William B., M.B., 104 [illegible] ter., Glasgow
Allen, William [illegible], M.B., C.M., [illegible], Ambleside
Allison, Alexander, M.D., Loanhead, Midlothian
Allison, James, min., 308 Main st., Alexandria
Allison, Miss Jane M., M.A., tch., 8 Hampden ter., Glasgow
Allison, John D., LL.B., writer, Cartvale, Paisley
Almond, Hely H., LL.D., teacher, N. Esk Lodge, Musselburgh
Alpine, George, B.D., minister, Dumbarton
Alston, Andrew, minister, Carluke
Alston, And., LL.B., law clerk, U.P. Manse, Carluke
Alston, Jas., M.B., Ch.B., 11 Sutherland st., Do'nhill
Alston, James M., M.D., Airdrie
Anderson, Agnes J. (Mrs. John MacLaren), M.B., C.M., Oughtibridge, near Sheffield
Anderson, Alex., M.A., min. Scotch Church, Carlisle
Anderson, Alexander R., M.A., tch., 16 Warrender park crescent, Edinburgh
Anderson, Miss Annie K., M.B., C.M., 13 Waverley gardens, Glasgow
Anderson, Arch., B.D., prob., Post Office, Dalmally
Anderson, Arthur R., M.B., C.M., 2 Wood street, Partick
Anderson, David, minister, Ceres, Fife
Anderson, Francis, M.A., professor, Sydney
Anderson, Geo., B.D., min., Manse, Renfrew
Anderson, Harry A. P., M.A., stud., 12 Brighton place, Govan
Anderson, Harry C., M.B., C.M., Inverie, Knoydart
Anderson, Henry, min., 9 Melville ter., Stirling
Anderson, Hugh S., M.A., student, 34 Burnbank gardens, Glasgow
Anderson, Jas., M.A., tch., Cummertrees, Annan
Anderson, Jas., M.B., Poulton-le-Fylde, Lancashire
Anderson, James F., M.A., writer, 137 St. Vincent street, Glasgow
Anderson, Jas. H., manuf., St. John's Wood, Lond.
Anderson, James Wallace, M.D., C.M., 23 Woodside place, Glasgow
Anderson, John, B.D., min., 72 Montgomery st., Kelvinside
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Wishart, Hugh R., M.A., tch., Millbrae, Millport
Wishart, Jas., B.D., prob., Wilson st., Airdrie
Wishart, Robt. S., M.A., tch., Meigle cot., Stepps
Wolfe, John Reissberg, M.D., 58 Collins street, Melbourne
Wolverson,Fred.,M.B.,C.M.,Walsall wood,Walsall
Wood, Jas. B., B.D., min., St. Paul's, Dundee
Wood,Percival J.,M.A.,teacher, N.Congregational school, Silcoates hall, Wakefield
Wood, Robt. T., M.B., C.M., 6 Blantyre st., Glas.
Woodburn, Alex., B.Sc., C.E., Ry. Co., Calcutta
Woodburn, James C.,M.D., 197 Bath st., Glasgow
Woods, Thomas, M.D., Parsonstown
Woodside, David, B.D., minister, 1 Colebrooke terrace, Glasgow
Workman,Harold,B.Sc.,eng., 5 Hanover ter.,Glas.
Wortabet, James R., M.B., C.M. 56 Upper Kennington lane, London, S.E.
Worton,Albert S.,M.B.,C.M.,Whinstone,Tollcross
Wotherspoon, James, B.D., minister, Allar's manse, Hawick
Wotherspoon, John, M.B., C.M., Seattle, Washington, U.S.A.
Wotherspoon, John, M.B., Ch.B., 144 Holland street, Glasgow
Wray, William, M.A., min., Orritor, Cookstown
Wright, Alexander, M.A., minister, Musselburgh
Wright, Dan., M.A., writer, 22 Abbey st., Paisley
Wright, Hugh, writer, 39 So. Bridge, Edinburgh
Wright, Hugh P., M.B., Ch.B., 8 Douglas st., Glas.
Wright, John, M.B.,C.M.,3 Victoria pl.,Shawlands
Wright, John C., M.B.,C.M., 13 Elderslie st., Glas.
Wright, John S., M.B., C.M., 159 Manchester road, Bradford
Wright, Thos.,M.A.,min.,10 Gladstone pl.,Stirling
Wright, Thos., M.B.,C.M., 8 Corunna st., Glasgow
Wright, Thomas G., LL.B., stud., 11 Westbourne terrace, Glasgow.
Wright, William, minister, Lochee
Wright, Wm.,M.B.,Ch.B.,23 W'stminst'r ter.,Glas.
Wyer, Otho F., M.D., Leamington
Wylie, Adam Howie, M.D., C.M., 93 Manchester street, Oldham
Wylie, Alex., M.A., min., 1 Mardale cr., Edin.
Wylie,Alex.,M.B.,C.M.,Ixelle,Fortis Green,Lond.
Wylie, And., M.D., C.M., 46 Holland Park avenue, London, W.
Wylie, James, M.D.,C.M., 64 Kelvingrove st.,Glas.
Wylie, John, M.B., C.M., Allanhill, Kilmarnock
Wylie, Rich.J.,M.D.,C.M.,Mashonaland,So.Africa
Wylie, William, M.A., teacher, Rendall, Kirkwall
Wylie, Wm.S.,B.L.,writer,149 St. Vincent st.,Glas.
Wyllie, John, B.L., writ., Bencloich,Lennoxtown
Wyllie, John, M.D.,C.M., 262 Beverley road, Hull
Wyllie, William, M.D., C.M., Kirkby Lonsdale
Wyllie, William, M.A., minister, 110 Dunnikier road, Kirkcaldy
Wyper, Wm., M.B., Ch.B., Zambesi cott.,H'milt'n
Wytt, William H. de, M.B., C.M.. 9 Viewforth gardens, Edinburgh

Yair, David W., minister, Firth, Orkney
Yair, John M.,M.D.,C.M., Teviotdale, N.Finchley, London, N.
Yamamoto, Nagakata, B.Sc., naval architect, Honjoku, Tokyo
Yarrow, Henry, M.B., C.M., 7 Lauriston pl., Glas.
Yeaman, George, M.D., 6 India street, Glasgow
Yearnshaw, Herbert, M.B., C.M., Daisy Bank, Weaste, Manchester
York, William, writer, 180 Hope street, Glasgow
Young, Alex. G.,M.D.,C.M.,Castle Bytham,Lincs.
Young,Alf.A.,M.A.,M.B.,C.M.,10 Ham. pk. tr.,Gl.
Young, Archibald, M.A., minister, 55 Osborne place, Aberdeen
Young, Archibald, B.Sc., M.B., C.M., 34 Berkeley terrace, Glasgow
Young, Daniel L., M.A., manuf., William st., Gl.
Young, David, M.D., C.M., 260 Gt.Eastern rd.,Gl.
Young, David, M.B., C.M., Greenbank, Partick
Young, David, M.A., min., 2 Annfield ter., Partick
Young, Dav.,B.D.,prob.,23 Ardgowan st., Gr'nock
Young, David J.,M.B.,Ch.B.,255 Golfhill dr.,Glas.
Young,Eben.D.,M.A.,W.S.,13 Frederick st.,Edin.
Young, Frank S., M.A., acct., Kansas, U.S.A.
Young, Geo. B., B.L., solic., Mt. Pleasant, Falkirk

Young, Geo. G. B., M.A., tch., 397 Gt. Western road, Glasgow
Young, Homer, M.A., min., F.C. manse, Gourock
Young, Hugh C. T., M.D., C.M., Sydney
Young, James, M.A., tch., South Schoolhouse, Elgin
Young, James, M.D., C.M., Cloud's Hill House, St. George, Bristol
Young, James, minister, [illegible], [illegible]
Young, Jas., M.A., min., N. Parish manse, Paisley
Young, Jas. J. T., M.B., C.M., 1 Maxwell dr., Glas.
Young, Jas. M., M.B., C M., Herbertfield, Hamilton
Young, John, M.D., prof., University, Glasgow
Young, John, M.B., C.M., The Thorn, Earlston
Young, John, M.D., 91 Up. Hanover st., Sheffield
Young, John, minister, Greenock
Young, John, M.A., B.Sc., 61 Clyde street, Glasgow
Young, John, M.B., C.M., 3 Whitehill gar., Glasg.
Young, John, M.A., minister, Greenfield, Iowa
Young, John, M.B., C.M., Bonnybridge
Young, John, M.B., Ch.B., 20 St. Vincent cr., Glas.
Young, John, B.D., prob., 101 Greenhead st., Glas.
Young, John C., M.A., M.B., C.M., Aden, Arabia
Young, John D., M.B., Ch.B., 109 Whitehill st., Glas.
Young, Peter T., M.A., [illegible]
Young, Robert Arthur, LL.B., advocate, Chicago
Young, Robert B., M.A., M.B., C.M., 8 Crown gardens, Glasgow
Young, Robt. B., M.A., tch., 15 Briarbank terrace, Edinburgh
Young, Robt. H., M.B., C.M., Tsomo, Transkei
Young, Robt., M.A., tch., Academy, Kilmarnock
Young, Robert R., M.D., C.M., 2 Melbourne street, Leicester
Young, Robert T., M.A., probationer, Oakwood, Bridge-of-Allan
Young, Thos., M.D., C.M., 82 Butler st., M'chester
Young, Thos. C., LL.B., writer, 93 West Regent street, Glasgow
Young, William, M.A., minister, Baldernock
Young, Wm., M.B., C.M., 32 Lilybank gardens, Hillhead
Young, Wm. G., M.D., 22 Monteith row, Glasgow
Young, William, minister, Barrhead
Young, William M., M.A., M.B., C.M., 171 Woodhouse lane, Leeds
Young, William P., M A., tch., Pub. sch., Larbert
Young, Wm. S., M.D., C.M., 45 Union st., Greenock
Younger, Arch. S., B.Sc., eng., 8 Walmer crescent, Glasgow
Younger, Robt. T., LL.B., advocate, 16 Heriot row, Edinburgh
Yuill, Miss Isobel, M.A., Hillside, Partick
Yuill, John, M.D., C.M., 160 Alma st., Birmingh'm
Yuille, Geo. S., B.D., prob., Roslyn, Bothwell
Yuille, James, minister, Peterhead

Zahm, Frank B., B.Sc., naval arch., New York
[illegible], Wm. [illegible], Colombia
Zuill, John, M.A., M.B., C.M., Kincardine-on-F'th
Zuill, Robert, M.B., C.M., Carnock, Dunfermline

## APPENDIX II.

## *EXTRA-ACADEMICAL TEACHING.*

*N.B.*—Every application for recognition must be accompanied by a payment to the University Factors, Messrs. Hill & Hoggan, 194 Ingram Street, Glasgow, of a fee of £5 5s., to be placed to the credit of a fund for defraying the cost of investigation by experts of the fitness of the teacher applying, and of the accommodation, apparatus, and teaching appliances at the disposal of the teacher.

The following regulations for the recognition of Extra-Academical Teaching under Ordinances Nos. 14, 12, and 23, were adopted by the University Court on 14th June, 1894 :—

### IN THE CASE OF INDIVIDUAL EXTRA-ACADEMICAL TEACHERS.

I. Every application shall be made to the Secretary of the University Court and shall supply the following information :—

- (*a*) The registrable or other qualification or qualifications of the applicant.
- (*b*) A statement of his opportunities of studying the subject and the length of time devoted thereto.
- (*c*) A statement of his experience in teaching the subject.
- (*d*) A note of any of his published articles or works on the subject.
- (*e*) The appointments which he holds as a teacher of the subject in which he requests recognition, and a statement whether the course for which recognition is sought has previously been conducted by him, and if so, for how long. If the applicant is a teacher in a Medical School, College of Science, or other similar Institution, the most recent issue of the Calendar of such School, College, or Institution, should be forwarded.
- (*f*) The number of meetings to which the course extends, whether each meeting is for one hour or longer, and a statement of the proportion of the course to be devoted to lectures, practical demonstrations, examinations and tutorial work. In the case of a practical course, information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the teacher for whom recognition is sought, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects treated in the course and of the books proposed for the use of students should also be sent in every case.

(*g*) The hour or hours at which the course is conducted.

(*h*) The accommodation, apparatus, and teaching appliances provided for the class.

(*i*) The teaching or examining bodies which have recognized his course.

II. In the case of an applicant conducting courses in Glasgow or its neighbourhood an inspection shall be made of his accommodation and appliances for teaching.

III. Every Extra-Academic Teacher in Glasgow whose course has been recognized under Ordinance No. 12 or Ordinance No. 14 shall, at the commencement of each session, call the attention of his whole class to the provisions of the Ordinance as to enrolment and payment of fee at the University by all students who desire afterwards to graduate there; he shall also call attention to the University requirements as to preliminary examination (more stringent in the case of medical students than the minimum required by the General Medical Council); and shall advise any students looking forward to a University degree to procure from the Matriculation Office a copy of the syllabus of regulations applicable to their course.

IV. Every recognized Extra-Academical Teacher shall annually within one month of the close of the session furnish the University Court with a return of

(*a*) The number of students who have attended the recognized course or courses, in such manner as to qualify *pro tanto* for graduation in the University of Glasgow.

(*b*) Any change that may have been made in the accommodation or appliances provided.

(*c*) A statement showing, for the year next ensuing, the number of meetings to which the course extends, whether each meeting is for one hour or longer, and the proportion of the course to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of a practical course information should be given as to the manner of conducting it, the number of examinations, oral or written, and whether, or to what extent lectures or tutorial work form part of the course. It should also be stated whether, besides the recognized teacher, assistants or demonstrators take part in conducting the course (whether systematic or practical), and, if so, their number, qualifications, and the extent to which they take part in conducting the course. A syllabus of the subjects to be treated in the course, and of the books proposed for the use of students, should also be sent.

V. The certificate of attendance granted by Extra-Academical Teachers should in all cases state the number of lectures or meetings for practical instruction in the course, the number of occasions on which the student was present, the fee charged, and bear that the student has duly performed the work of the class.

VI. Every candidate not being a matriculated student attending the course of an Extra-Academical Teacher in Glasgow, recognized for the purposes of graduation in Medicine or Pure Science, must at the commencement of each year enrol his name in a book kept at the University for that purpose, paying a fee of the same amount as the matriculation fee, and having in respect thereof a right to the use of the University Library. (Ord. No. 14, § VIII. 5 ; Ord. No. 12, § V.)

VII. The fee for attendance for the purposes of graduation on the courses of instruction of an Extra-Academical Teacher in Glasgow shall not be less than the fee for the corresponding University Class. (Ord. No. 14, § VIII. 6 ; Ord. No. 12, § IV. 2 ; Ord. No. 23, § IV. 2.)

VIII. The Court will not in any case recognize for the purposes of graduation in Medicine the course of any teacher who teaches at the same time more than one of the subjects, except where the applicant is a professor or teacher of any endowed public college or institution, who, by the terms of his appointment, is required to teach more than one of the subjects, and in that case recognition can be granted in one subject only. (Ord. No. 14, § VIII. 7.)

IX. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

X. The recognition of any teacher who fails to furnish the information required in terms of Regulation IV., or a sufficient explanation relative to such failure, or who has ceased for the period of two consecutive sessions to teach the subject in which he is recognized, shall *ipso facto* terminate.

### IN THE CASE OF SCHOOLS OR INSTITUTIONS.

I. Every application shall be made to the Secretary of the University Court, and shall supply the following information :—

(*a*) A statement of the number of teachers and a detailed syllabus of the curriculum courses proposed to be given, or, in the case of practical classes, information of a similar kind.

(*b*) The number and duration of lectures proposed to be given and the number of examinations, whether written or oral, deemed necessary, or in the case of a practical class, information of a similar kind. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).

(*c*) The hours of lectures.

(*d*) The teaching or examining bodies which have already recognized the curriculum or certificate of the school or institution making application.

(*e*) A statement as to the accommodation, apparatus, and appliances at the disposal of the teachers in the school or institution making application.

(*f*) A note of the fees proposed to be charged.

II. The Court shall, if it thinks fit, cause an inspection to be made of the accommodation, apparatus, and teaching appliances provided by the school or institution making application.

III. Every recognized school or institution shall annually within one month of the close of the session furnish the University Court with a return of (*a*) The number of students who have attended the recognized school or institution in such manner as to qualify *pro tanto* for graduation in the University.

(*b*) Any change that may have been made in the accommodation or appliances provided.

(*c*) A statement showing, for the year next ensuing, the number of meetings to which the courses extend, whether each meeting is for one hour or longer, and the proportion of the courses to be devoted to lectures, practical demonstrations, examinations, and tutorial work. In the case of practical courses information should be given as to the manner of conducting them, the number of examinations, oral or written, and whether, or to what extent, lectures or tutorial work form part of the courses. It should also be stated whether assistants or demonstrators take part in conducting the courses (whether systematic or practical).

IV. The certificates of attendance granted by recognized schools or institutions should in all cases state the number of lectures or meetings for practical instruction in the course, the number of occasions on which the student was present, the fees charged, and bear that the student has duly performed the work of the classes.

V. The fees for attendance for the purposes of graduation on the courses of instruction in a recognized school or institution shall not be less than the fees for the corresponding University classes. (Ord. No. 14, § VIII. 6; Ord. No. 12, § IV. 2; Ord. No. 23, § IV. 2.)

VI. It is a condition of every recognition granted by the Court that it can be withdrawn or suspended at any time if the Court see fit.

## *LIST OF EXTRA-ACADEMICAL TEACHERS.*

List of Extra-Academical Teachers recognized by the University Court of the University of Glasgow, for the purpose of Graduation in Medicine and Science, in terms of Ordinances of the Universities Commissioners (1858 and 1889), the names of those who are recognized for Graduation in Science being printed in *italics*.

| | | |
|---|---|---|
| 19 April, 1876, | Dr. James Gow Black, Otago, | *Chemistry.* |
| ,, | Miller Coughtrey, M.B., Otago, | *Anatomy.* |
| 7 Nov., 1876, | John Dougall, M.D., Glasgow, | *Materia Medica.* |
| ,, | James Stirton, M.D., Glasgow, | *Midwifery.* |
| 12 Sept., 1877, | A. M. Buchanan, M.D., Glasgow, | *Anatomy.* |
| 21 Dec., 1880, | William Craig, M.D., Edinburgh, | *Materia Medica and Therapeutics.* |
| ,, | John Barlow, M.D., Glasgow, | *Physiology.* |
| 24 May, 1881, | Byrom Bramwell, M.D., Edinburgh, | *Practice of Medicine.* |
| 22 July, 1885, | James J. Dobbie, M.A., D.Sc., University Coll., Bangor, | *Chemistry.* |
| ,, | Reginald W. Phillips, B.A., B.Sc., University Coll., Bangor, | *Botany.* |

| | | |
|---|---|---|
| 28 April, 1886, | A. Smithells, B.Sc., Yorkshire College, Leeds, | *Chemistry.* |
| 4 Oct., 1887, | Claud M. Thompson, University College, Cardiff, | *Chemistry.* |
| ,, | W. Newton Parker, University College, Cardiff, | *Zoology.* |
| 27 Feb., 1890, | James Robertson Watson, M.A., Glasgow, | *Chemistry and Practical Chemistry.* |
| ,, | Philip J. White, M.B., University College, Bangor, | *Zoology.* |
| 5 Jan., 1892, | B. C. A. Windle, M.D., Queen's Coll., Birmingham, | *Anatomy.* |
| ,, | T. W Bridge, M.A., Mason Science Coll., Birmingham, | *Zoology.* |
| 28 April, 1892,<br>,, | James Swanson, M.A., M.B., C.M., St. Mungo's Coll., Glasgow, | *Botany.* |
| 23 Feb., 1893, | *James Blyth, M.A.*, Technical College, Glasgow, | *Physics.* |
| ,, | J. W. Carr, M.A., University College, Nottingham, | *Botany.* |
| 27 April, 1893, | *G. G. Henderson, D.Sc.*, Technical College, Glasgow, | *Chemistry.* |
| ,, | J. H. Poynting, D.Sc., Mason College, Birmingham, | *Physics.* |
| 20 July, 1893, | J. Berry Haycraft, M.D., University College, Cardiff, | *Physiology.* |
| 9 Nov., 1893, | A. P. Aitken, D.Sc., Edinburgh, | *Chemistry.* |
| ,, | J. F. King, Edinburgh, | *Chemistry.* |
| ,, | W. I. Macadam, Edinburgh, | *Chemistry.* |
| ,, | J. B. Readman, D.Sc., Edinburgh, | *Practical Chemistry.* |
| ,, | D. N. Paton, M.D., Edinburgh, | *Physiology and Practical Physiology.* |
| ,, | A. Bruce, M.D., Edinburgh, | *Pathology and Practical Pathology.* |
| ,, | F. W. N. Haultain, M.D., Edinburgh, | *Midwifery.* |
| ,, | R. M. Murray, M.B., Edinburgh, | *Midwifery.* |
| ,, | G. A. Gibson, M.D., Edinburgh, | *Practice of Medicine.* |
| ,, | R. W. Philip, M.D., Edinburgh, | *Practice of Medicine.* |
| ,, | W. Husband, M.D., Edinburgh, | *Vaccination.* |
| 14 Nov., 1893, | R. B. Ness, M.A., M.B., Anderson's College, Glasgow, | *Materia Medica and Therapeutics, and Practical Pharmacy.* |
| ,, | Dawson Turner, M.D., Edinburgh, | *Physics.* |
| 8 Feb., 1894, | J. W. B. Hodsdon, M.D., Edinbro', | *Surgery.* |
| ,, | H. E. Clark, M.R.C.S., Glasgow, | *Surgery.* |
| 8 Mar., 1894, | John S. M'Laren, M.B., C.M., Edin., | *Surgery.* |
| ,, | Robert T. Kent, M.A., F.R.C.S., St. Mungo's College, Glasgow, | *Anatomy.* |

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|---|---|---|
| 14 June, 1894, | George T. Beatson, M.D., Glasgow, | *Surgery.* |
| ,, | Francis M. Caird, M.B., C.M., Edin., | *Surgery.* |
| ,, | Alexander James, M.D., School of Medicine, Edinburgh, | *Practice of Medicine.* |
| ,, | A. N. M‘Alpine, Minto House, Edinburgh, | *Botany.* |
| ,, | William Russell, M.D., School of Medicine, Edinburgh, | *Pathology and Practical Pathology.* |
| ,, | Henry Alexis Thomson, M.D., Minto House, Edinburgh, | *Surgery.* |
| 2 Aug., 1894, | George B. Todd, M.B., C.M., Anderson's College, Glasgow, | *Zoology.* |
| ,, | John Hardie, M.B., C.M., F.R.C.S.E., Edinburgh School of Medicine, | *Anatomy and Practical Anatomy.* |
| ,, | Percy F. Frankland, Ph.D., B.Sc., F.R.S., Birmingham, | *Chemistry.* |
| 13 Dec., 1894, | *R. Stanfield, A.R.S.M., A.M.Inst. C.E.*, Heriot Watt Coll., Edin., | *Mechanical Engineering.* |
| ,, | *John Gibson, Ph.D.*, Heriot Watt College, Edinburgh, | *Chemistry and Chemical Laboratory.* |
| 14 Feb., 1895, | A. H. Trow, B.Sc., University College, Cardiff, | *Botany.* |
| ,, | A. B. Robertson, F.C.S., Coatbridge Technical School and Mining College, | *Chemistry.* |
| ,, | Malcolm Laurie, B.A., D.Sc., F.R.S.E., St. Mungo's College, Glasgow, | *Zoology.* |
| 14 Nov., 1895, | Robert Turnbull, B.Sc., New School of Medicine, Edinburgh, | *Botany.* |
| 12 Dec., 1895, | Peter Bennett, Anderson's College Medical School, Glasgow, | *Physics.* |
| ,, | T. K. Dalziel, M.B., Anderson's College Medical School, Glas., | *Surgery.* |
| 9 Jan., 1896, | Charles Workman, M.D., Royal Infirmary, Glasgow, | *Pathology and Practical Pathology.* |
| 18 June, 1896, | John Edgar, M.A., B.Sc., M.B., Anderson's College Medical School, Glasgow, | *Midwifery.* |
| ,, | *George A. Gibson, M.A.*, Technical College, Glasgow, | *Mathematics.* |
| 9 July, 1896, | *Alexander MacLay, B.Sc., C.E.*, Technical College, Glasgow, | *Engineering Drawing and Design.* |
| 12 Nov., 1896, | John Lindsay Steven, M.D., Glasg., | *Practice of Medicine.* |
| ,, | *Francis G. Baily, M.A.*, Heriot Watt College, Edinburgh, | *Physics and Electrical Engineering.* |
| 11 Mar., 1897, | A. Campbell Clark, M.D., St. Mungo's College, Glasgow, and Lanark District Asylum, Hartwood, | *Mental Diseases.* |

| | | |
|---|---|---|
| 6 May, 1897, | Richard J. A. Berry, M.D., F.R.C.S.E., New School of Medicine, Edinburgh, | *Anatomy.* |
| 9 June, 1898, | John Carswell, L.F.P.S.G., L.R.C.P.E., Anderson's College Medical School, Glasgow, | *Mental Diseases.* |
| ,, | J. R. Whitaker, M.B., Surgeon's Hall, Edinburgh, | *Anatomy and Practical Anatomy.* |
| 10 Nov., 1898, | Hugh Galt, M.B., C.M., St. Mungo's College, | *Forensic Medicine and Public Health.* |
| ,, | W. E Thomson, M.D., Anderson's Coll. Medical School, Glasgow, | *Physiology.* |
| ,, | Robert A. Fleming, M.D., School of Medicine, Edinburgh, | *Practice of Medicine.* |
| 13 July, 1899, | A. Francis Dixon, D.Sc., University College of South Wales, Cardiff, | *Anatomy and Practical Anatomy.* |
| ,, | A. L. Selby, M.A., University College of South Wales, Cardiff, | *Physics.* |
| ,, | D. R. Paterson, M.B., University College of South Wales, Cardiff, | *Practical Pharmacy.* |
| 9 Nov., 1899, | Theodore Shennan, M.D., School of Medicine, Edinburgh, | *Pathology.* |
| 26 April, 1900, | H. Harvey Littlejohn, M.A., M.B., B.Sc., Edinburgh, | *Medical Jurisprudence and Public Health.* |
| ,, | Carstairs C. Douglas, B.Sc., M.D., Anderson's College Medical School, Glasgow, | *Medical Jurisprudence and Public Health.* |
| 10 July, 1900, | *J. C. Beattie, D.Sc.*, South African College, Cape Town, | *Natural Philosophy.* |
| ,, | *P. D. Halm, Ph.D.*, South African College, Cape Town, | *Chemistry.* |
| 8 Nov., 1900, | R. S. Thomson, B.Sc., M.D., Anderson's College Medical School, Glasgow, | *Practice of Medicine.* |
| 14 Mar., 1901, | *John W. Paterson*, West of Scotland Agricultural College, | *Agricultural Chemistry.* |
| ,, | *A. N. M'Alpine*, West of Scotland Agricultural College, | *Agricultural Botany.* |
| ,, | *J. J. F. X. King*, West of Scotland Agricultural College, | *Agricultural Entomology.* |
| ,, | *John R. M'Call*, West of Scotland Agricultural College, | *Veterinary Hygiene.* |

And the ordinary Physicians and Surgeons of any General Hospital in the United Kingdom which accommodates not fewer than eighty patients, and possesses a distinct staff of Physicians and Surgeons. (See Ordinance No. 14, Section VII. (5).)

## *LIST OF INSTITUTIONS OR SCHOOLS.*

List of Schools or Institutions recognized by the University Court of the University of Glasgow, for the purposes of Graduation in Medicine, Law, and Science in terms of Ordinances of the Universities Commission (1889).

14 Nov., 1895, London School of Medicine for Women, in respect of the following courses: *Chemistry* (*Systematic and Practical*), *Anatomy* (*Systematic and Practical*), *Physiology* (*Systematic and Practical*), *Practical Pharmacy, Practical Pathology, Medical Jurisprudence and Public Health, Clinical Surgery, Clinical Medicine, Practical Midwifery, Mental Diseases, Out Practice or Dispensary and Vaccination.*

23 Mar., 1896, Owens College, Manchester.

,, University of New Zealand. If a candidate for the First Professional Examination in this University has obtained a Degree in Science or in Arts in the University of New Zealand, granted after a course of study and an examination in Botany, Zoology, Physics, or Chemistry, such candidate is exempted from the examination in such subject or subjects. (Ordinance No. 54, Section IV.)

23 July, 1896, Universities of Oxford, Cambridge, and Dublin, and the four Inns of Court, London. The above are recognized for the purposes of Graduation in Law under Ordinance No. 39 [General No. 11.—Regulations for the Degree of Bachelor of Laws (LL.B.)] and subject to Section II. thereof.

11 Mar., 1897, Glasgow Eye Infirmary.

10 Nov., 1898, University of Louvain. This University has been approved by the University Court as a University in which Courses for the four subjects represented in the First Science Examination may be taken and reckoned *pro tanto* under Ordinance No. 23, Section IV. (2).

13 April, 1899, Harvard University, Boston, U.S.A. Approved under Ordinance No. 23, Section IV.

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## APPENDIX III.

## *UNIVERSITY SOCIETIES.*

### GLASGOW UNIVERSITY UNION.

At a Meeting of Students and Graduates, held on the 14th day of February, 1885, it was unanimously resolved to establish a Glasgow University Union. A sum sufficient to erect a building for this purpose having been offered to the Senate by John M'Intyre, Esq., M.D., Odiham, Hampshire, and the Senate having accepted this gift, Articles of Constitution were drawn up by a Committee of Students and

Graduates, and received the approval of the Senate, the Donor, and of the Students' Representative Council. A further sum of £12,000 was raised by the Union Bazaar of 1889, and devoted to furnishing and endowing the building. In 1893, to meet the increasing membership, the building was largely extended at a cost of £2800. The Union is governed by a Board of Directors, appointed by the Committee of Management which is elected annually at the General Meeting of the Members.

*Objects.*—The objects of the Union are to provide Students with the comforts and conveniences of a Social Club, to hold debates, and to form a centre to which the various University Societies may be affiliated. The Buildings comprise a Debating Hall, a Dining Hall, Reading and News Rooms, Billiard and Smoking Rooms, Committee Rooms, Lavatories, etc.

*Membership.*—The Members of the Union are Ordinary Members or Life Members.

Ordinary membership of the Union is open to all matriculated Students and all former Students of the University, and all Medical Students of Glasgow whose names are enrolled in the Extra-mural Album of the University, on payment of an Annual Subscription of Seven Shillings and Sixpence. Students may join for the summer session only, on payment of Four Shillings.

All matriculated Students and former Students of the University may, on payment of the sum of Three Pounds Three Shillings, become Life Members of the Union.

*President*—Andrew F. Bell.
*Vice-President*—James J. MacLehose, M.A.
*Hon. Secretary*—George D. Valentine, M.A., The Union.
*Hon. Treasurer*—Allan F. Baird.
*Assistant Secretary and Treasurer*—C. M. Drew.
*Librarian*—J. M. Clark.
*Convener of Games Committee*—D. M. Hutcheson.

*Board of Directors*—The Office-bearers; W. M. R. Pringle, M.A., and A. J. Fleming, LL.B. (former students); G. F. Buchan and Ivy M'Kenzie, M.A. (students).

*Former Presidents of the Union.*

1890. John H. Harley, M.A.
1890–91. Robert G. Bell, M.D.
1891–92. John Paterson, M.A., M.B.
1892–93. F. A. Macquisten, B.L.
1893–94. Joshua Ferguson, M.A., M.B.
1894–95. Joshua Ferguson, M.A., M.B.
1895–96. Rev. J. A. Stokes Little, M.A.
1896-97. W. C. Henderson, M.A., B.Sc. (resigned Oct., 1896).
1896-97. A. M. Scott, M.A.
1897-98. John C. Monteith, M.A.
1898-99. William F. Smillie.
1899-1900. George F. Buchan.
1900-1901. Ivy M'Kenzie, M.A.

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### THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all Students attending the Divinity Hall of the University; but all matriculated Students in faculties other than the Faculty of Divinity are eligible for extraordinary membership.

*Honorary President*—The Rev. Professor William Stewart, D.D.
*President*—David L. Blair, M.A.
*Vice-President*—John Gillies, M.A.
*Secretary*—Norman R. Mitchell, M.A., Ash Cottage, Beauly.
*Treasurer*—Matthew Edington, M.A.

*Committee.*

John Muir, M.A.
Alexander Cross, M.A.
W. A. Gillies, M.A.
W. M. Tait, M.A.

(With two students of the first year in Divinity to be elected in November.)

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### MEDICO-CHIRURGICAL SOCIETY.

The principal business of the Society is the prosecution of Medical Research by Dissertations, Debates, and Lantern and Microscopical Demonstrations.

All Medical Students and Medical Men of one year's standing are eligible for Ordinary Membership, which may be obtained on payment of the Annual Subscription of One Shilling and Sixpence.

Meetings of the Society are held in the Union Buildings every Friday Evening during the Winter Session, at 7 o'clock.

*Office-Bearers for 1901-2.*

*Honorary President*—Lieutenant-Colonel Babtie, V.C., R.A.M.C.
*President*—John Muir. *Vice-President*—A. M. Pollock.
*Secretaries.*
*Corresponding*—R. T. Leiper, The Union.
*Minute*—W. Martin.
*Treasurer*—[illegible] *Demonstrator*—J. Morison.
*Librarian*—S. Mort.

*Committee.*

T. Richmond,
J. White, M.A., B.Sc.
W. S. Harvey.
W. D. H. Stevenson, M.A.
F. Brechin.
D. Blackley.
D. M'Ewen.
W. A. Wilson.

(With two Students of the first year in Medicine to be elected in November.)

Books are given out at the weekly meetings, or during the week on written application.

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### DIALECTIC SOCIETY.

The Society meets weekly during the Session for the discussion of Literary, Philosophical, and Political subjects.

All matriculated men Students are eligible for Ordinary Membership, which is obtained by payment of the Annual Subscription of One Shilling.

*Honorary President.*
J. S. Phillimore, M.A., Professor of Greek.
*President*—James M. Clark, M.A.

*Vice-Presidents.*

*Senior*—George D. Valentine, M.A. *Junior*—J. Roger Haldane.

*Secretaries.*

*Senior*—Leyton P. Richards, The Union. *Junior*—Weir Grieve.

*Treasurer*—Wylie R. MacIntyre. *Macer*—Douglas Wilson.

*General Board.*

| | |
|---|---|
| Walter Shaw. | George J. Spreull. |
| Archibald Leitch. | Henry L. Menzies. |
| A. C. Wilson. | P. Spens. |
| W. W. Gillan. | W. Crawford Grieve. |

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### GLASGOW UNIVERSITY ORIENTAL SOCIETY.

(Instituted 1880.)

The object of the Society is the study of the languages and literatures of the East.

All Students of Oriental languages are eligible for election to the membership.

The Society meets twice a year—in the months of April and October.

*Office-Bearers.*

*President*—Rev. Professor James Robertson, D.D.
*Vice-President*—Rev. R. B. Pattie, B.D.
*Corresponding Secretary*—Rev. James Young, B.D.
*Recording Secretary*—Rev. George Anderson, B.D.
*Treasurer*—Rev. Robert Gardner, B.D.

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### GLASGOW UNIVERSITY ALEXANDRIAN SOCIETY.

This Society was formed in January, 1887. It has for its chief object the discussion of questions connected with the Literatures of Ancient Greece and Rome. The membership is open to Members of the University. Any distinguished Scholar or any Member of the University of five years' standing, or any person officially connected with the University, is eligible for Honorary Membership.

*Office-Bearers.*

*Honorary Presidents.*

Professor G. G. Ramsay, LL.D. | Professor J. S. Phillimore, M.A.
Professor W. A. Raleigh, M.A.

*President*—W. W. M'Kechnie, M.A.
*Vice-Presidents* { D. H. Crawford, M.A.
A. Montgomerie, M.A.
*Secretary*—G. S. Gordon, Learmonth Street, Falkirk.
*Treasurer*—W. Manson.

*Committee.*

| | |
|---|---|
| Jacob Levine. | George Beaumont. |
| H. J. Philips. | R. K. Goodfellow. |
| Matthew Stewart. | H. Wilson. |

## GLASGOW UNIVERSITY PHILOSOPHICAL SOCIETY.

(Instituted 1887.)

This Society was instituted for the promotion of Philosophical Discussion and Investigation. It meets on alternate Wednesday Evenings at Eight o'clock during the Winter Session, in the Union. Ordinary Membership is open to all Students who have attended or are attending Philosophical Classes in any University. The annual subscription is one shilling for those who join through the Union, and one shilling and sixpence for those who do not.

*Office-Bearers for Session* 1901-2.

*Honorary Presidents.*

Principal Story,
Professor W. A. Raleigh,
Professor Jones,
Professor Adamson, } *Ex Officiis.*
The Master of Balliol.

*President*—Alexander Montgomerie, M.A.
*Vice-President*—J. Martin.
*Secretary*—Evan Roberts, 37 Arlington Street.
*Treasurer*—E. R. Rusk.

*Members of Committee.*

Miss Archibald.
Messrs. N. D. Smith, M.A., Bell, MacEwen, Keith, and Thompson.

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## GLASGOW UNIVERSITY ENGINEERING SOCIETY.

(Instituted 1891.)

The objects of this Society are the promotion of the study of Engineering and the diffusion of Engineering information among the members, by the reading of papers, by discussions, by visits to Engineering works in progress, and by such other means as the Society shall approve.

The membership is open to all past and present Students of the University.

*Office-Bearers for Session* 1901-2.

*Honorary President*—Archibald Denny, M.I.N.A.
*Honorary Vice-Presidents*—{ Professor Archibald Barr, D.Sc., M.Inst.C.E.
Professor J. H. Biles, M. Council I.N.A.
*President*—J. D. Cormack, B.Sc., M.I.E.E.

*Vice-Presidents.*

| *Engineering*— | *Naval Architecture*— |
|---|---|
| J. B. Henderson, D.Sc. | C. S. Douglas, B.Sc. |

*Hon. Secretaries*—{ S. Blackley, 217 Blythswood Gardens.
R. Blair, The Union.
*Minute Secretary*—T. M. Hunter, M.A.
*Treasurer*—Alexander Williamson, The Union.

*Committee.*

| *Engineering*— | *Naval Architecture*— |
|---|---|
| G. Blair, B.Sc. | W. F. Robertson. |
| J. W. French, B.Sc. | J. S. Dickie. |
| J. Craig. | |

### GLASGOW UNIVERSITY PHYSICAL SOCIETY.

This Society was founded in 1884 "for the discussion of scientific subjects in general, and the diffusion of scientific information among its members, by special communications, and any other means which the Society may from time to time approve."

Meetings are held during the Winter Session on alternate Wednesdays at 3.30 P.M. The syllabus for the year is issued in autumn, and may be had from the Secretary after the commencement of the Winter Session.

All past and present students of the University who are interested in Physical Science are eligible for membership. The subscription for the ensuing year has been fixed at One Shilling.

*The Office-Bearers are :—*

*Honorary President*—Lord Kelvin, G.C.V.O., F.R.S.
*President*—Professor Gray, LL.D., F.R.S.
*Vice-President*—Walter Stewart, M.A., D.Sc.
*Secretary and Treasurer*—J. G. Gray.

Letters should be addressed to the Secretary of the Society at the Physical Laboratory.

### GLASGOW UNIVERSITY MISSIONARY SOCIETY.

(Instituted 1821.)

*Office-Bearers for* 1901-2.

*Honorary President*—The Very Rev. Principal Story, D.D., LL.D.
*President*—William Fulton, M.A.
*Vice-President*—John Muir, M.A.
*Superintendents of Home Missions*—D. L. Blair, M.A.
P. G. Smith, M.A.
*Senior Secretary*—John Gillies, M.A., Gateside, Beith.
*Junior Secretary*—W. A. Gillies, M.A.
*Librarian*—George Condie, M.A.
*Treasurers*—Alexander Cross, M.A.
Norman R. Mitchell, M.A.

*Members of Committee.*

*From Theology*—
Kenneth O. Macleod, M.A.
William Macphail.
Matthew Babington, M.A.
J. C. Muir.
W. M. Tait, M.A.

*From Arts*—
John B. Stephen.
J. R. Spence.
James Thomson.

*From Law*—
G. D. Valentine, M.A.

Representatives from First Year Theology, and from Medicine to be appointed in October.

### GLASGOW UNIVERSITY CHRISTIAN ASSOCIATION.

The object of this Society is the promotion of religious life and fellowship in the University.

The headquarters of the Association are at 69 Bank Street, where there are carried on weekly Bible-reading circles and daily Prayer meetings. Other features of the work are :—The issue of a Handbook at the beginning of each winter session to all new students, monthly addresses by well known preachers, deputations to Evangelistic meetings.

*Office-Bearers.*

*Hon. President*—Professor Gray, LL.D.
*Hon. Vice-President*—Professor Alexander Macphail.
*President*—G. Douglas Reith.
*Vice-President*—Alexander M'Lean.
*General Secretary*—Berkeley H. Robertson, M.A., 2 La Belle Place.
*Assistant Secretary*—A. S. Dunlop.
*Deputation Secretary*—J. L. Stevenson.
*Bible-circle Secretary*—N. B. Stewart.
*Treasurer*—J. W. Arthur, Jr.

*Committee.*

Ivy M'Kenzie, M.A.
James Cosh.
James N. Gourlay.
Ebenezer M'Millan.
William Y. Turner.

## THE FABIAN SOCIETY—GLASGOW UNIVERSITY BRANCH.

(Established March, 1896.)

The Fabian Society consists of Socialists. Members of the University interested in social reform, but unable to subscribe to the Fabian basis, may become associates and enjoy the full privileges of membership, except the right to vote and to hold office, on payment of the ordinary subscription of Two Shillings.

*Officers for Session 1901-2.*

*Honorary President*—Professor Ronald M. Burrows, M.A.
*President*—S. H. Turner, M.A.
*Vice-President*—W. Boyd, M.A., B.Sc.
*Secretary*—A. M. Macmillan, M.A., B.Sc.,
17 University Avenue, Hillhead.
*Treasurer*—William M'Cutcheon.
*Librarian*—Thomas Rook, M.A.

*Committee.*

Tom Jones, M.A.
C. Macmillan, B.Sc.
Robert M'Laurin.
George Shann, M.A.

## GLASGOW UNIVERSITY TOTAL ABSTINENCE SOCIETY.

The object of this Society is to unite the abstaining students in the University, and to promote the cause of Total Abstinence. This work it seeks to accomplish among the students by means of lectures, sermons, etc., while, outside the University, it carries on a successful Temperance Mission Work.

*Office-Bearers for* 1901-2.

*Honorary President*—Professor M'Kendrick, M.D., LL.D., F.R.S.

*Honorary Vice-Presidents.*

| | |
|---|---|
| Geo. A. Gibson, M.A. | James Carslaw, M.B. |
| A. Cameron Corbett, M.P. | Wm. Snodgrass, M.B. |

*President*—D. D. M'Dougall, M.A.
*Vice-President*—D. D. F. M'Intyre.
*Secretary*—Norman B. Stewart, 38 Prince's Square, Strathbungo.
*Treasurer*—J. N. Gourlay, Linden Lodge, Dowanhill.

*Committee.*

*Arts*—
- Wylie R. M'Intyre.
- J. M'Ewen.
- L. P. Richards.
- P. Spens.

*Science*—
- J. Cameron.

*Medicine*—
- Alex. J. Mitchell.
- D. G. Hunter, M.A.
- A. F. Bell.
- John Muir.

*Divinity*—
- Alex. Young.

From Queen Margaret College—Miss J. M'Ilroy, M.A., and Miss Mary Hamilton.

### GLASGOW UNIVERSITY '93 CLUB.

The object of the Club is to promote intercourse among the members by means of at least one annual re-union which shall be held as far as possible on the Friday before Christmas. The Membership is limited to students of the University of the session 1892-93.

*Office-Bearers for* 1901.

*President*—W. M. R. Pringle, M.A.
*Vice-Presidents*—Robert Wiseman.
M. M'Callum Fairgrieve, B.A.
*Secretary and Treasurer*—Robert W. M'Clure, B.L., 172 St. Vincent Street, Glasgow.

*Committee.*

| | |
|---|---|
| A. Wylie Blue. | James Dick, M.A. |
| Campbell Taylor, M.A. | A. H. Charteris, LL.B. |
| J. Roy Tannahill. | S. H. M'Ewing, B.D. |

J. L. C. Tulloch, B.D.

### GLASGOW UNIVERSITY OSSIANIC SOCIETY.

(Instituted 1828.)

The object of the Society is the discussion of subjects bearing on the language, literature, and customs of the Highlands. It meets in the Union on Friday evenings at seven during the winter session. The business of the Society is conducted in Gaelic at every alternate meeting. Ordinary membership is open to all students, both men and women, interested in the Highlands.

*Office-Bearers for Session* 1901-2.

*Honorary President*—Alexander Carmichael.
*President*—William A. Gillies, M.A.
*Vice-President*—Duncan MacArthur.
*Secretary*—Hector M'Lean.
*Assistant Secretary*—Angus M'Vicar.
*Treasurer*—George Ferguson.
*Bard*—William MacPhail.
*Representative to Union*—Neil M'Innes.

*Members of Committee.*

Miss Monica Gordon.
Miss Marion Reid.
Neil M'Lellan (*Convener*).
Dugald M'Callum.
John Anderson.
Angus Campbell.

With a member to be elected from first year's Arts in November.

## THE CHURCH OF SCOTLAND UNDERGRADUATE SOCIETY.

The Society meets every alternate Monday at 7.30 p.m. in the Union for the discussion of literary, social, and religious topics, and for the promotion of social intercourse among its members.

All undergraduate students connected with the Church of Scotland are eligible for membership. An undergraduate shall mean a student in any Faculty who has not graduated in that Faculty.

The annual subscription is sixpence for Union members and one shilling for non-Union members.

*Office-Bearers for* 1901-2.

*Honorary President*—Professor Cleland, M.D., LL.D.
*President*—W. W. Clark.
*Vice-President*—George Muir, M.A.
*Secretary*—J. R. Spence, Lochside, Lochwinnoch.
*Treasurer*—A. S. Dunlop.

*Committee.*

Messrs. G. D. Valentine, M.A., J. Bain, M. Shannon, M. Stewart, A. Boyd, J. Chisholm, G. Quig.

## GLASGOW UNIVERSITY UNITED FREE CHURCH STUDENTS' CELTIC SOCIETY.

This Society was instituted in 1864. All United Free Church students connected with or interested in the Highlands are eligible for ordinary membership. It meets in one of the United Free Church College Classrooms every Friday evening during the Session for the discussion of various subjects, chiefly literary and political. At two of the meetings the business is conducted in Gaelic.

*Office-Bearers for* 1901-2.

*Honorary President*—Principal Rainy, D.D.
*President*—D. D. F. M'Intyre.
*Vice-President*—Alexander M'Leish.
*Secretary*—Archibald Young, 50 Kent Road.
*Treasurer*—W. S. Sutherland, M.A.

*Directors.*

*Divinity*—
John M'Lellan.
*Arts*—
Ebenezer M'Millan.
Archibald Shaw.

*Medicine*—
Campbell Ross.
J. D. M'Callum, M.A.

---

### GLASGOW UNIVERSITY UNITED FREE CHURCH STUDENTS' SOCIETY.

*Honorary President*—Rev. Professor James Denny, D.D.
*President*—W. H. Andrew.
*Vice-Presidents*—J. A. Graham and James Cosh.
*Secretary*—G. P. Philps, 12 Park Terrace, Crosshill.
*Treasurer*—James Menzies.
*Editor of Magazine*—R. D. Watt.

*Committee.*

G. Aitken, R. C. Young, J. Baillie, W. R. Wiseman, and one to be elected in October.

This Society meets every Saturday at 10.15 a.m.

The objects of the Society are the promotion of social intercourse and the furtherance of moral and intellectual culture among its members.

All Students attending the University in any Faculty, who are connected with the United Free Church, are eligible for membership, which is obtained by the payment of the annual subscription of One Shilling. Students not connected with the above Church may become Associates.

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### GLASGOW UNIVERSITY ATHLETIC CLUB.

*Office-Bearers for* 1901-2.

*Honorary President*—Professor Adamson, LL.D.
*President*—George Stewart.
*Vice-President*—Sam. J. Moore.
*Secretary and Treasurer*—William Stratton, M.A., Elmwood, Motherwell, or University Union.

*Executive Committee.*

J. Unsworth.
A. T. Ross.
W. W. Gillan, M.A.
H. Gourlay.
R. C. Schlomka.
J. Jeffrey, M.A.
J. Muir.
D. A. Wilson.

and the Office-Bearers.

*Conveners of Sub-Committees in charge of various pastimes*—
*Rugby Football.*—D. A. Wilson, The Union.
*Association Football.*—J. Unsworth, The Union.
*Golf.*—W. W. Gillan, M.A., The Union.
*Fives.*—A. T. Ross, 29 Huntly Gardens.
*Swimming.*—R. C. Schlomka, The Union, or 1 Greenvale Place.

The object of the Club is the promotion of all forms of Athletic exercise. The Membership is confined to present and past Students of the University. None but Members of the Club are entitled to play any game under the charge of the Sub-Committees.

The annual subscription is Seven Shillings and Sixpence, which entitles the member to join in any or all of the games carried on by the Club.

The financial year begins in the first week of November, when the Annual General Meeting is held.

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### GLASGOW UNIVERSITY CYCLING CLUB.

*Honorary President*—Professor Medley.

*Honorary Vice-Presidents.*

| | |
|---|---|
| H. S. Carslaw, M.A., D.Sc. | Alex. R. Ferguson, M.B., C.M. |

*Captain*—John Lamble.

*Vice-Captain*—Arthur S. Wilson.

*Committee.*

| | |
|---|---|
| George F. Buchan. | R. W. Simpson. |

*Treasurer*—D. Auchinvole Dick.

*Secretary*—James R. Kerr, 15 India Street, Glasgow.

The annual subscription is half-a-crown.

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### GLASGOW UNIVERSITY RIFLE CLUB.

*Office-Bearers for 1899-1900.*

*President*—The Very Rev. Principal Story, D.D., LL.D.

*Vice-Presidents*—Professor Murray and Colonel James A. Reid.

*Team Captain*—Robert Carswell (Captain 1st Lanark R.V.), 203 Hope Street, Glasgow.

*Vice-Captain*—J. M. Campbell (Major 3rd V.B.A. and S.H.).

*Secretary and Treasurer*—James C. Paterson, 203 Hope Street, Glasgow.

*Students' Convener*—J. M. Huey, The Union.

*Committee*—T. E. Robinson (Major 1st L.R.V., retired), W. Nelson (Captain 1st L.R.V.), J. M. Huey, James Ritchie, Junr., C. S. Douglas, and H. V. Turner.

Its objects shall be to promote rifle shooting among students and ex-students of Glasgow University, and to provide the means of having Glasgow University well represented in the annual match for the Inter-University Trophy.

All students and ex-students of Glasgow University shall be eligible as Patrons and Ordinary Members. All persons officially connected with the University shall be eligible as Patrons. Both classes of Members may take part in the competitions.

All persons, eligible as above, subscribing 10s. or upwards annually, shall be *ipso facto* Patrons. The subscription for Ordinary Members shall be 5s. for ex-students, and 2s. 6d. for present students, all payable by 1st March annually. These annual subscriptions may be commuted by a present payment of £3 3s., entitling the person paying to become a Life Patron.

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### THE UNIVERSITY CLUB, GLASGOW, 202 BATH STREET.

The Club is instituted for the association of gentlemen connected with the universities of the United Kingdom or with foreign universities.

The following persons are eligible for admission into the Club as ordinary members:—(1) Graduates and *alumni* of any recognised university in the United Kingdom or abroad ; (2) Professors, and persons holding any honorary office in connection with a university ; (3) Persons who, though not possessed of any of the above qualifications, have, in the judgment of the Committee, other equivalent qualifications ; and (4) Persons without University qualification, not exceeding in number one-third of the membership.

The entry-money is £3 3s., and the annual subscription for a member having a residence or place of business within five miles of Glasgow Royal Exchange, is £4 4s., and for a member having neither a residence nor place of business within that distance, £2 2s. Graduates or *alumni* of two years' standing are admitted free of entry-money, if joining within a year of graduation or leaving College.

Members of the Senatus Academicus and Lecturers of the University of Glasgow are admitted *ex officio* Extraordinary Members on accepting membership without entry money, and University Assistants and Demonstrators of the said University are eligible for election as members without entry money and at a restricted subscription of £2 2s. so long as they retain office.

Members joining on and after 1st July in any year pay one-half subscription for that year, and on and after 1st December members are admitted for the succeeding year, having the use of the Club during December in addition.

*Committee for* 1901.

James Fleming, LL.B., *Chairman.*

Charles E. Beckett, M.A., LL.B.
J. H. Nicoll, M.B., C.M.
George S. Middleton, M.D.
Rev. John Watt, D.D.
Thomas Binnie, Jun., M.A.
Æneas A. MacBean.
J. J. Burnet, A.R.S.A.
Stuart Foulis.
Andrew Rutherfurd, B.D.
J. A. Brown.
J. M. Munro Kerr, M.B.
George Beilby.
W. K. Hunter, M.D.
R. J. Cunliff, LL.B.
James Johnston, C.A.
Alan D. Ker.
Prof. G. G. Henderson, D.Sc.
E. H. L. Oliphant, M.D.
John Rowan, M.B., C.M.
T. Kennedy Dalziel, M.B.

*Secretary and Treasurer*—Robert E. Smith, C.A., 212 West George Street, Glasgow.

Full particulars as to membership, etc., may be obtained on application to the Secretary.

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## GLASGOW UNIVERSITY CLUB, LONDON.

The objects of the Club are to maintain good fellowship among its members and to promote the interests of the University of Glasgow and of higher education in connection therewith.

Graduates, and all who are or have been students of the University of Glasgow, or officially connected with it, are eligible for membership.

*Office-Bearers for* 1900-1901.

*President*—Lord Kelvin, G.C.V.O., F.R.S., D.C.L., LL.D.

*Vice-Presidents*—

W. Q. Orchardson, Esq., R.A.
Lord Shand, D.C.L., LL.D.
Professor David W. Finlay, M.D., F.R.C.P.
Sir W. T. Gairdner, K.C.B., M.D., LL.D., F.R.S.
Lord Kinnear.
Sir W. H. White, K.C.B.

*Council*—

Dr. Peter Abercrombie.
Matthew A. Adam, B.Sc.
Dr. W. W. Don.
Professor J. W. Hales, M.A.
Dr. C. O. Hawthorne.
A. B. Kennedy, F.R.S.
R. A. Ker, Esq.
Rev. David M'Ewan, D.D.
A. S. Murray, LL.D.
Dr. A. B. Seton Orr.
John Struthers, Esq
Professor John M. Thomson, LL.D., F.R.S.

*Honorary Treasurer*—Dr. Guthrie Rankin, M.R.C.P., 4 Chesham Street, Belgrave Square, S.W.

*Honorary Secretaries*—

Norman M. MacLehose, M.B., C.M., 13 Queen Anne Street, Cavendish Square, W.
James M. Dodds, M.A., Dover House, Whitehall, S.W.

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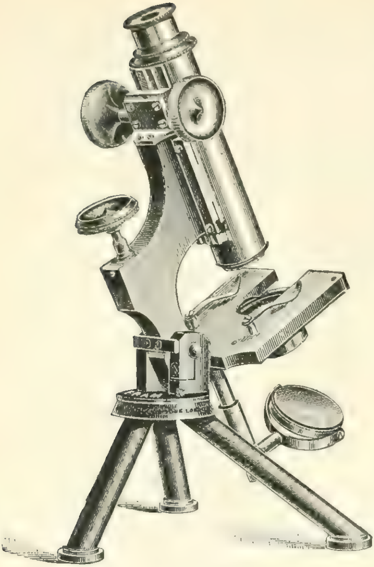

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